

ONLINE MAGAZINE

MOBILE APPS & E-COMMERCE

**How AI
Simplifies
App Development**

AI Transformation
**To Reshape
Your Business**

**UAE's Journey
Towards
AI Dominance**

**How AI
Elevates Your
Ecommerce
Website**

AI Training
For
Business Leaders



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MOBILE APPS

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Artificial intelligence (AI) is revolutionizing the business landscape by enhancing efficiency, driving innovation, and improving customer experiences.

By processing vast amounts of data quickly and accurately, AI enables businesses to make informed decisions and anticipate market trends.

It automates routine tasks, allowing employees to focus on higher-value activities and boosting overall productivity.

In this edition, our featured article is centered around the role AI transformation plays in reshaping businesses.

Also in the ecommerce section, we explain how AI can elevate your ecommerce website profits, as well as enlighten the kind of training business leaders need to keep their company competitive.

In the mobile section, we highlight how AI can simplify the app development process, how AI can be used to improve the functionality of taxi booking apps, and the UAE's journey towards AI dominance.

I wish all our readers success and hope you benefit from the information presented in the magazine and stay with us in the future.

Rajib Roy

(CEO, Royex Technologies)

ABOUT THE EDITOR



Rajib Roy is a software developer, entrepreneur, and author of two Books. He obtained a Bachelor's in Electrical and Electronic Engineering from Chittagong University of Engineering and Technology and a Master's in Computer Engineering from Heriot Watt University. Today, Rajib lives in Dubai, with his wife and his two sons. In his day job, Rajib runs his own Mobile apps and Ecommerce site Development company named [Royex Technologies](#), with branches in Dubai, Qatar, India, and Bangladesh. He has been instrumental in the start-up of several businesses and been responsible for building several projects.

E-COMMERCE

Ecommerce platforms, features, tips, and reviews



The rise of artificial intelligence (AI) has profoundly reshaped businesses across various sectors. AI enhances efficiency by automating repetitive tasks, allowing employees to focus on more strategic activities.

Through advanced data analytics, AI provides actionable insights that help in making informed decisions, predicting market trends, and optimizing operations.

It personalizes customer experiences by analyzing preferences and behavior, leading to improved satisfaction and loyalty. Furthermore, AI-driven tools streamline supply chain management, reduce costs, and enhance productivity.

As businesses continue to adopt AI technologies, they gain a competitive edge, fostering innovation and growth in an increasingly digital world.

We explain this in detail in our first article explaining what AI transformation is, what it can do to reshape your business.

In the second article, we'll explore how AI can elevate your ecommerce website to boost profits. In the final article, we delve into training for business owners to integrate AI into their business operations.



06 WHAT IS AI TRANSFORMATION AND HOW WILL IT RESHAPE YOUR BUSINESS?

AI transformation involves strategically adding AI technologies such as machine learning, natural language processing, and computer vision into a company's main operations.

20 WHAT TRAINING DO BUSINESS LEADERS NEED IN THE AI ERA TO KEEP THEIR COMPANY COMPETITIVE?

Organizations that are well-prepared with leaders who comprehend AI's impact will likely achieve unprecedented levels of success. However, those that are unprepared may fall against competitors who adeptly utilize AI.

12 HOW CAN AI ELEVATE YOUR E-COMMERCE WEBSITE TO BOOST PROFITS?

E-commerce businesses rely heavily on customer data to personalize experiences, optimize operations, and drive sales. Artificial Intelligence (AI) plays a pivotal role in this process.

WHAT IS AI TRANSFORMATION AND HOW WILL IT RESHAPE YOUR BUSINESS?



Are you using AI for your business? If not, do you know that AI can transform your entire operation and give you a significant competitive edge? Artificial Intelligence (AI) is rapidly becoming a game-changer for businesses across various industries.

However, AI is more than just a technological tool; it represents a transformative force that can reshape your entire business model. From optimizing supply chains and enhancing customer experiences to driving innovation and unlocking new revenue streams, AI has the potential to give you a significant competitive advantage.

But what exactly is AI transformation, and how can you leverage it to future-proof your business? If you're not already strategically integrating AI into your organization, you risk falling behind your competitors who are embracing this disruptive technology.

Now is the time to explore the transformative potential of AI and position your business at the forefront of this revolution.

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The global AI market is set to expand from \$62.4 billion in 2022 to \$429.9 billion by 2028, marking a 24.5% annual growth rate.

Additionally, AI is expected to create 133 million new jobs and generate an extra \$13 trillion in business revenue by 2030.

The digital age has ushered in a new era – the era of AI transformation. In this article we will discuss how AI will reshape your company.



Understanding AI Transformation

AI transformation involves strategically adding AI technologies such as machine learning, natural language processing, and computer vision into a company's main operations.

This helps automate tasks, boost human intelligence, and produce valuable insights from big data sets.

Integrating AI driven solutions can make work automatic, raise efficiency levels, and offer important insights from data.

However, making a shift to AI is a continuous process that demands changes in mindset, culture, and infrastructure.

Companies may use generative AI to synthesize huge volumes of unstructured data and revolutionize knowledge work.

For example, quickly retrieving and summarizing relevant information across the company to answer employee questions.

Did You Know?

- The global AI market is set to expand from \$62.4 billion in 2022 to \$429.9 billion by 2028, marking a 24.5% annual growth rate.
- AI is expected to create 133 million new jobs and generate an extra \$13 trillion in business revenue by 2030.
- Global AI is growing at a CAGR of nearly 40%. AI service revenue will increase by over 6x in five years.

Or using AI service bots to assist field technicians in identifying maintenance needs and improving service quality.

Just like digital transformation focused on leveraging digital tech for websites, apps, social media etc. to streamline operations and customer experiences, AI transformation goes further.

AI can analyze vast data, identify patterns, and make predictions. It enables extracting deep insights from data for data-driven decisions and automating complex processes with high accuracy and speed.

AI can surface hidden insights from unstructured data that can dramatically improve productivity, customer service, and financial performance.

AI transformation can have a profound impact on various aspects of a business here are few examples:

Example 1: An AI system might examine your company's last year's sales data and information market trends and what competitors are doing. With this, it predicts next year's revenue and demand. This knowledge helps in setting the right prices, managing stock levels, and planning production.

Example 2: An AI powered pricing engine may look over data from your previous projects which include details such as project size, available resources, and market situations to suggest competitive yet profitable pricing for new projects.

Example 3: An AI tool could evaluate how your company uses its resources, pinpoint areas where resources are wasted, and recommend better schedules and tasks allocations. This improves how quickly projects are completed and lowers running costs.

AI systems can optimize business operations by analyzing past sales data, market trends, and competitor actions to predict future demand and revenue, aiding in pricing, stock management, and production planning.

They also suggest competitive pricing for new projects by reviewing past project data and recommend better resource allocation to reduce waste, speed up project completion, and lower costs.

How AI Will Transform Your Company

The most common ways businesses can use AI is by involving machine learning (ML) and deep learning.

Machine Learning (ML)

ML is a type of AI that can process large amounts of data quickly. ML algorithms seem to "learn" and improve their predictions when given more data over time. ML can take huge datasets, like from internet-connected devices, and identify useful patterns that humans can understand.

Example: In a manufacturing plant, ML can analyze data streaming in from connected machines. It can detect when a machine has reduced performance and alert staff to do maintenance, before a breakdown occurs.

ML is different from regular automation, as ML can make predictions rather than just following set instructions.

Deep Learning

Deep learning is a more advanced type of ML that uses artificial neural networks. It is important for complex tasks like fraud detection that require analyzing many factors at once. Deep learning models keep improving as more data is added, rather than plateauing.

Example: For self-driving cars, deep learning analyzes data from sensors about objects, speeds, and predicted movements all at the same time. This allows the car to make decisions like when to change lanes safely.

AI can revolutionize almost every aspect of a business. Here are some key areas where it will drive transformation:

Automation: AI simplifies work by taking over routine and dull tasks. This allows staff to concentrate on more important activities. AI can handle all sorts of jobs, from entering data to managing customer interactions.

Decision Making: AI systems have the power to sift through large amounts of data, spotting trends and details that might be overlooked by people. This supports smarter and stronger decisions based entirely on data.

Innovation: With AI, companies have the chance to create brand new products or dramatically improve their current offerings, opening doors to fresh opportunities.

Efficiency: By using AI for optimization, businesses can sharpen their procedures, minimize unnecessary usage, and save money in both operations and logistics.

Conclusion

AI transformation has moved from a future idea to a current reality that changes industries and redefines how businesses operate.

By adopting AI technologies and using data effectively, companies can discover valuable insights, make their operations more efficient, and open up new opportunities for growth and innovation.

With assistance from reliable partners such as Royex Technologies, organizations can manage the challenges of AI transformation and fully use its benefits to succeed in the digital era.

Royex Technologies: Enabling AI Transformation

Royex Technologies, artificial intelligence service company in Dubai, delivers cutting edge services to help organizations embrace AI technology. Our skilled team equips companies with the tools needed to utilize AI, fostering innovation and giving them an edge over competitors.

The AI transformation services at Royex Technologies include:

Data Preparation and Transformation: Our data engineers use sophisticated methods to clean, modify, and ready data for AI and machine learning models. This process guarantees that the data used is of high quality for generating precise insights.

AI Model Development and Deployment: The specialists at Royex create and implement custom AI models that serve specific business needs. These can range from predictive analytics and natural language processing to computer vision among other applications.

AI Powered Analytics and Visualization: With our AI driven analytics solutions, businesses can delve into their data for meaningful insights and visualize complex patterns in an understandable way.

AI Consulting and Strategy: At Royex, our AI experts actively collaborate with businesses to build detailed AI strategies. They find the best uses for AI and make sure it fits well into the company's current processes and systems.

Working with Royex Technologies allows companies to speed up their integration of AI. This adoption utilizes advanced AI technologies which helps companies grow, improve how customers experience their services, and maintain a lasting competitive edge.

HOW CAN AI ELEVATE YOUR E-COMMERCE WEBSITE TO BOOST PROFITS?

How Can AI Elevate Your **E-Commerce Website** to Boost Profits?



In the current digital environment, we see an overwhelming amount of data created every moment. Updates from social media, emails, and queries on search engines all add to a massive information reservoir that influences our online experiences.

This data can revolutionize eCommerce businesses and lead to extraordinary growth if used correctly. Data, however, presents both opportunities and challenges.

It can improve customer interactions and increase earnings for businesses, but it also brings up important concerns about privacy and security.

Finding a balance between using data to grow a business and safeguarding consumer rights is essential today.

E-commerce businesses rely heavily on customer data to personalize experiences, optimize operations, and drive sales.

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The use of AI in analytics helps e-commerce companies deeply understand their customers

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Artificial Intelligence (AI) plays a pivotal role in this process, powering advanced analytics and automation tools that enable businesses to collect, analyze, and utilize data more effectively than ever before.

So, how can AI elevate your e-commerce website to boost profits? Let's explore the main strategies that drive this change.

Data Collection and Analysis

Data collection and in-depth analysis are at the core of how AI elevates e-commerce operations.

E-commerce platforms employ a multitude of AI-driven tracking technologies to gather extensive customer data from every digital touch point.

Website interactions are monitored, capturing browsing behavior, pages visited, products viewed, and more through cookies and web analytics.

User registrations provide a foundation of personal data like names, emails, and demographics.

Customer surveys, social media logins, transaction histories, email engagement, search queries, location data, and service interactions further enrich customer profiles.

Moreover, AI-powered sentiment analysis tools quickly sort and classify content created by users such as product reviews, comments, and forum discussions to discover insights about how satisfied people are with products.

After gathering this vast amount of structured and unstructured data, machine learning algorithms analyze it to detect trends, forecast upcoming actions, and provide a detailed view of each customer.

This use of AI in analytics helps e-commerce companies deeply understand their customers.

This makes it possible for these businesses to create effective, personalized strategies that improve their marketing, sales, product development, and customer service.

Personalization and Targeting

AI excels at analyzing huge amounts of data from customers – such as browsing history, buying behavior, and demographic info to create highly individualized experiences.

Through machine learning, your e-commerce platform can show products that align precisely with each customer's own tastes. This smart personal customization could boost profits by up to 59% by 2035, a study by Accenture suggests.

Additionally, AI's natural language processing (NLP) improves website search functions by grasping the meaning behind user searches and offering exact matches even if there are typing errors or slang. This seamless search keeps users interested and increases sales.

Customer Support and Engagement

AI-driven chatbots and virtual assistants are revolutionizing customer support and engagement for e-commerce brands.

Powered by advanced natural language processing (NLP) capabilities, these AI assistants can understand and communicate with shoppers in a natural, conversational way.

They provide an always-available presence to answer common questions about products, pricing, shipping, and more. But their impact goes far beyond basic queries.

AI assistants can guide customers through the entire shopping journey offering personalized product recommendations based on their preferences, initiating returns or exchanges, and providing real-time updates on order status.

Their ability to instantly analyze buyer intent and context allows them to deliver a streamlined, tailored experience. As AI and NLP technologies continue advancing, chatbots will become even more human like and intuitive.

For e-commerce businesses, integrating AI customer support drives major operational efficiencies by automating routine inquiries and tasks that would otherwise require human resources.

This allows customer service teams to focus on more complex cases requiring a human touch.

AI assistants crucially enhance customer satisfaction through faster response times, 24/7 availability across multiple channels like chat, voice, SMS and more.

With Gartner predicting 75% of e-commerce queries being handled by AI conversational agents by 2025, adopting virtual assistants will soon be table stakes for companies looking to deliver best-in-class experiences.

Dynamic Pricing and Optimization

Nailing the right pricing strategy is crucial for maximizing profit margins, but it's a complex balancing act.

AI-powered pricing solutions enable your business to automatically adjust prices across your product catalog for an optimal equilibrium of demand and revenue yield.

These algorithms factor in real-time market data, competition, inventory levels, consumer demand patterns, and more variables.

On the inventory front, AI and machine learning models can accurately forecast demand by analyzing historical sales data, pricing trends, seasonality, and countless other signals.

This ensures you have the right products stocked at the right quantities, preventing overstock issues and lost sales from out-of-stocks.

Fraud Detection and Security

AI strengthens communication transparency, fairness, and quality, enhancing overall customer relationships.

It also plays a crucial role in preventing fraud and elevating security measures through intelligent fraud detection systems that can flag suspicious activities based on data pattern recognition.

Harnessing the full potential of AI requires a strategic, data-driven approach. From determining your business objectives and auditing your technological capabilities to allocating resources and ensuring ethical compliance, a well-defined AI strategy is vital.

Omnichannel Marketing

Omnichannel marketing empowered by AI allows e-commerce companies to create unified, personalized experiences that seamlessly guide customers through the entire buying journey, regardless of which touchpoints or channels they interact with.

AI and machine learning analyze huge datasets on customer behaviors, preferences, past purchases, and more from websites, mobile apps, social media, email campaigns, and other digital properties.

These AI-driven insights then enable laser-targeted, hyper-personalized marketing content and product recommendations tailored to each individual's context and interests.

Whether it's finely tuned website shopping experiences, targeted social ads and posts, triggered email journeys, in-app messaging, or any other channel, AI automation ensures this personalized brand conversation flows cohesively and consistently across all touchpoints.

The result is a holistic, relevant omnichannel experience that drives deeper engagement, satisfaction, and likelihood to purchase as customers move fluidly through sales cycles without disruptive breaks between channels.

As consumer expectations around seamless commerce experiences continue rising, AI-powered omnichannel orchestration provides e-commerce brands a competitive edge.

Performance Monitoring and Optimization

Leveraging AI to continuously monitor, analyze, and optimize key performance metrics is vital for e-commerce businesses to drive sustainable growth and profitability.

AI-powered analytics platforms ingest massive datasets across the entire customer journey - website behavior, traffic sources, conversion funnel, sales data, customer acquisition costs, support interactions, and more.

Machine learning models then rapidly process this wealth of information to deliver precise, multi-dimensional insights that pinpoint areas of strength and opportunities for improvement.

From identifying bottlenecks in marketing attribution to forecasting product demand trends to optimizing pricing strategies to reducing operational inefficiencies, AI shines a light on both strategic and tactical levers businesses can ACTION to elevate key KPIs like sales, margins, customer lifetime value, and overall ROI.

This AI-driven continuous measurement, testing, and refinement allows for hyper-agile optimizations that keep e-commerce operations highly calibrated for peak performance as market dynamics shift.

With AI handling the heavy lifting of advanced data science, businesses gain a live compass for navigating the most ROI-accretive strategies at every turn.

How Can eCommerce Businesses Adapt Latest AI Trends

To stay ahead of the curve and fully leverage AI's potential, eCommerce businesses must proactively adapt to the latest AI trends and innovations. This requires a systematic, multi-pronged approach:

Define Clear Business Objectives

The first step is to clearly define your eCommerce business goals and objectives that you want AI to help achieve.

Whether it's enhancing marketing strategies, automating processes, building brand awareness, improving customer experience, or driving sales, having specific goals will guide you towards the most relevant AI solutions.

Identify Operational Pain Points

Conduct a thorough audit of your current eCommerce operations to pinpoint key pain points, inefficiencies or areas for improvement. These could include supply chain/inventory issues, poor website UX, high shopping cart abandonment rates, lack of personalization capabilities, and more. Prioritize the most significant challenges AI can help resolve.

Assess Technical Readiness

Evaluate your existing technological infrastructure, data management practices, and internal AI/ML capabilities through technical audits and gaps assessments. This will reveal where you may need to invest in new AI tools, talent, or process improvements to implement AI successfully.

Allocate Resources Strategically

With a clear understanding of your goals and gaps, allocate sufficient budgets and resources to support your AI initiatives, ensuring a focused and sustainable AI strategy. Leverage AI-driven forecasting tools to optimize planning.

Start With Pilot Projects

Before full-scale deployments, kick off with pilot AI projects that allow controlled experimentation and learnings. This lowers risk while demonstrating AI's potential value for your business.

Prioritize Ethical AI

As you implement AI, ensure ethical practices around data privacy, transparency, discrimination prevention and human oversight are core tenets of your AI governance. This builds trust with customers.

Foster an AI-Embracing Culture

Creating a culture that embraces innovation, continuous learning, and AI-driven decision making is crucial. Provide AI training, encourage knowledge sharing, and celebrate wins to Rally your organization.

E-COMMERCE

Utilizing AI fully demands a strategic plan based on data. You need to set your business goals, review your tech tools, distribute resources efficiently, and adhere to ethical standards. A clear AI strategy is essential.

Ecommerce businesses that adopt AI innovations position themselves for enduring success in a competitive digital space. AI allows you to customize services, enhance efficiency, and simplify processes which helps in providing outstanding customer service and boosting profits. Now is the ideal moment to add AI into your e-commerce approach because innovation leads the future.

AI offers a plethora of options suitable for various company sizes and financial capacities. Should you require internal expertise to navigate suitable tools for your business, consulting a leading artificial intelligence (AI) company in Dubai, like Royex Technologies, can prove invaluable.

WHAT TRAINING DO BUSINESS LEADERS NEED IN THE AI ERA TO KEEP THEIR COMPANY COMPETITIVE?

What Training Do Business Leaders Need In The AI Era To Keep Their Company Competitive?



We are experiencing a remarkable period of quick progress in technology, particularly in artificial intelligence (AI). AI is no longer an idea from science fiction – it's becoming crucial for businesses in every sector. This evolution brings both great prospects and significant changes that leaders must be ready for.

If you're a CEO, executive, manager or anyone in a leadership position, you cannot afford to fall behind as AI reshapes the business landscape. It is essential to update your skills and increase your knowledge to keep your company at the forefront and successful in this new era dominated by AI.

The surge of AI is approaching, and it will cause major disruptions. Organizations that are well-prepared with leaders who comprehend AI's impact will likely achieve unprecedented levels of success.

However, those that are unprepared may fall against competitors who adeptly utilize AI.

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As a business leader, accessing proper training and education about AI should be a top priority.

AI Is Changing Everything

Chances are, AI is already impacting your industry and business operations in some way, even if it's not obvious yet.

AI technologies like machine learning, computer vision, natural language processing and robotic process automation are being leveraged everywhere from improving sales and marketing efforts to streamlining supply chains, automating customer service and so much more.

The influence of AI is set to increase and become more disruptive over time. Business leaders who take the initiative to learn about AI capabilities and applications will gain significant advantages over their rivals who are unprepared. Now is the best time to begin learning about AI.

But What Exactly Should You Learn?

OK, so you realize AI education is critical – but where do you even start? The AI field can seem highly technical and intimidating from the outside.

The good news is that you don't need to become a data scientist or machine learning expert yourself (unless you want to!). But there are some key areas business leaders absolutely must get trained on.

Understanding AI Fundamentals

First and foremost, before business leaders can start using AI in their operations effectively, they need to understand what AI is and how it operates. You don't have to earn a degree in computer science or data science for this purpose.

The aim is not to make you an expert who can create AI systems on your own. Yet, understanding key ideas and terms like machine learning, neural networks, and natural processing is crucial.

Knowing these basics helps you see past the marketing exaggerations and decide if an AI tool or system could indeed be valuable for the specific needs of your business.

Unfortunately, many traditional MBA programs and business schools are still behind in integrating AI education into their offerings.

However, there's positive news, the growth of online courses, video tutorials, books, and self study resources now make it easier to learn the fundamentals of AI, even for individuals who don't have a technical background.

When business leaders dedicate time to grasp basic AI concepts, they can keep up as this influential technology transforms various industries.

Integrating AI Throughout the Business

Once you've got those fundamental AI concepts down, the next big step is learning how to operationalize and integrate AI capabilities throughout all areas of your business.

And I am not just talking about having chatbots on your website or using AI for targeted marketing. AI applications will inevitably spread into and transform every single department and business function - from supply chain logistics to manufacturing, customer service, finance, HR, you name it.

As a leader, it's your job to take an active, hands-on role in identifying how AI can increase efficiency, reduce costs, drive new revenue opportunities and enhance processes across your entire organization.

This requires developing what could be called an "AI mindset" - a new way of viewing your operations, products, and challenges through an AI lens.

For example, how could AI-powered predictive analytics optimize your inventory management? Could computer vision inspect product defects better than the human eye?

How might natural language AI create better customer experiences? Gaining practical experience by implementing AI pilot projects within your company can be extremely beneficial.

The goal is to find ways to enhance and surpass human skills throughout all areas of your business.

Ethical AI Leadership

While maximizing profits and performance will always be major priorities, responsible business leaders can no longer ignore ethical quandaries that come along with deploying AI systems.

There are significant concerns around protecting data privacy as AI ingests huge amounts of personal information. Issues of algorithmic bias and discrimination in AI models making critical decisions like lending or hiring recommendations.

The potential for AI automation to displace human workers and upend entire industries and labor forces. And bigger picture - what is the broader impact of ceding more decision-making power to machines?

These aren't just philosophical debates, they are real-world risks that can heavily impact your company's reputation, regulatory standing, and very license to operate if not handled properly.

Being an ethical AI leader means proactively implementing robust governance practices around developing and using AI responsibly, with clear accountability and transparency baked in.

This will require hands-on training to fully understand AI's potential pitfalls and frameworks for mitigating them across your AI systems and workforce. Clearly, dealing with ethics in AI is not simple and doesn't have uniform solutions.

However, all business leaders must directly confront this issue as AI increasingly becomes a common feature in our daily lives and markets.

Developing a Data-Driven Mindset

The old saying "garbage in, garbage out" is especially true when it comes to AI systems - they can only be as good as the data they are trained on.

This is why it is crucial for business leaders to promote a culture focused on data across their companies to effectively use AI.

Simply having a data science team is not sufficient. Leaders must establish strong practices for consistently collecting, storing, and managing data from all parts of the company.

They need to invest significantly tools, technology, and skills needed to analyze this data and convert it into actionable insights.

Moreover, they must encourage an approach where both large and small decisions are based on solid evidence rather than intuition or biased opinions.

By 2025, data analysis and data literacy skills are projected to be some of the most in-demand capabilities for workers across all job roles according to the World Economic Forum's Future of Jobs report.

Building this data-centric culture won't be easy, but it's an absolute must for avoiding "garbage in, garbage out" when it comes to AI.

Upskilling and Reskilling Your Workforce

One major task for leaders today is preparing their teams for the AI era. This involves training employees to work effectively with new AI technologies.

Let's face it - AI automation may replace some jobs, but it will also create entirely new roles we haven't seen before.

As a leader, must actively set up training programs to both enhance existing skills (upskill) and teach new skills (reskill) so employees can succeed with AI.

This means providing education to help your current employees at all levels understand how to effectively work with AI tools and automation in their day-to-day jobs, instead of fearing it.

You'll need to reskill many existing workers with new capabilities like data literacy, AI monitoring, and algorithm auditing.

And you'll have to hustle to hire and cultivate emerging AI talent like data scientists, machine learning engineers, AI ethics managers and more.

Getting your human workforce AI-ready won't be easy, but it's essential to prevent skills gaps and stop human talent from becoming a competitive setback as AI technologies quickly advance.

It's important to invest in continuous learning programs and encourage ongoing reskilling to keep your workforce prepared for the future.

Rethinking Business Models

Finally, one of the most important things for leaders is to understand that AI isn't just a productivity tool - it's a transformative force that will require fundamentally rethinking and adapting their entire business model.

AI opens up all kinds of new opportunities for revenue streams, product and service innovations, novel customer experiences, and entirely new ways of delivering value that weren't possible before.

Smart leaders will get creative about leveraging AI to augment their existing products and services, but they'll also need to think far bigger about venturing into completely new AI-driven business lines.

According to a study by Accenture, by the year 2035 AI could boost labor productivity by a whopping 38% across all industries and job roles.

That's an enormous competitive advantage waiting to be unlocked for companies bold enough to reimagine what their AI-enhanced business could look like from the ground up.

But it will require letting go of legacy thinking and monumental culture change for even the biggest incumbents.

The AI era is already here, and it's ushering in one of the biggest workforce transformations since the industrial revolution.

Business leaders who focus on AI training and education for themselves and their employees can stay ahead. This will help position their companies for success in a world increasingly influenced by AI.

AI offers a plethora of options suitable for various company sizes and financial capacities. Should you require internal expertise to navigate suitable tools for your business, consulting a leading artificial intelligence (AI) company in Dubai, like Royex Technologies, can prove invaluable.



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MOBILE APPS

Mobile app development, guides, cost breakdowns



Artificial intelligence (AI) can significantly simplify mobile app development and reduce costs by automating coding tasks, enhancing UI/UX design through user behavior analysis, and using predictive analytics to prioritize features.

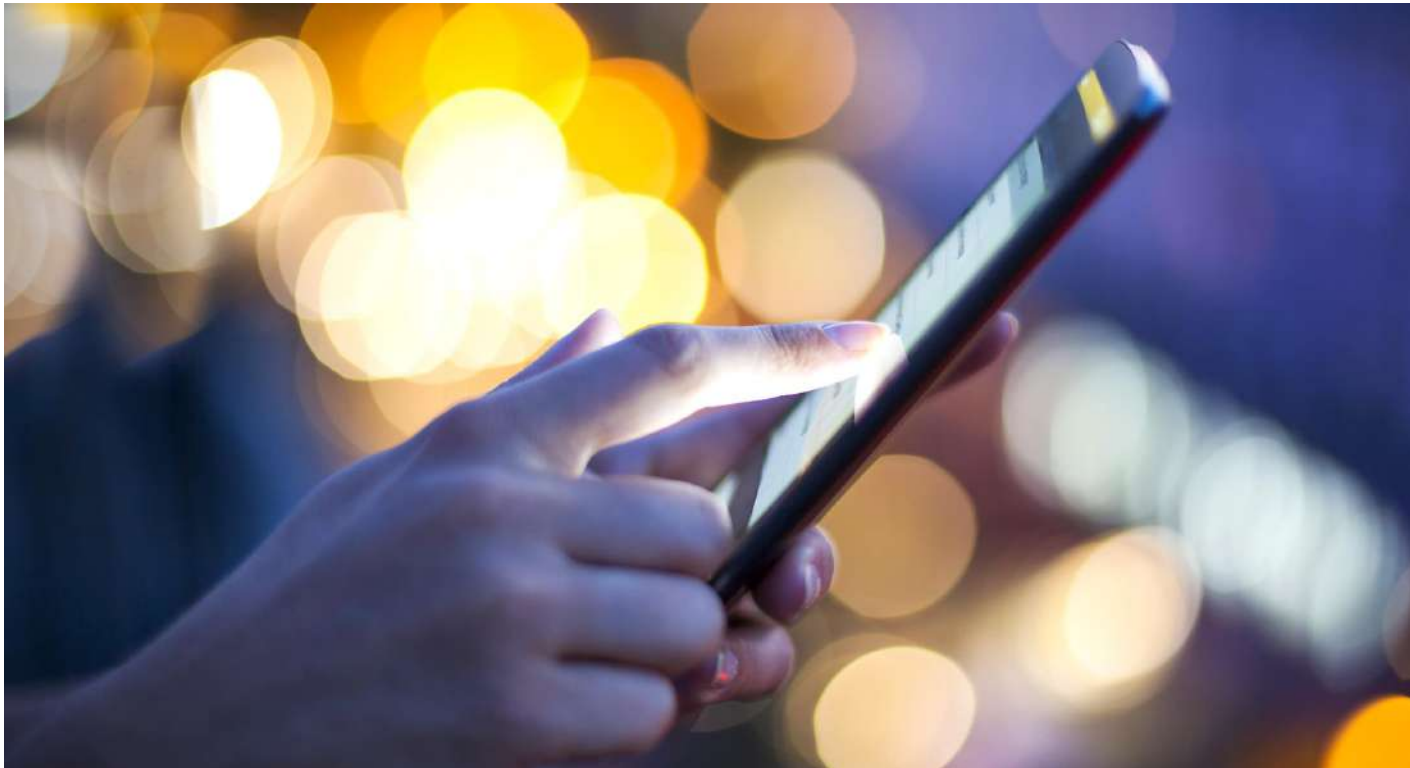
AI-driven tools streamline testing, optimize resource allocation, and enhance security by detecting threats in real-time.

Additionally, AI can personalize user experiences and automate customer support with chatbots, leading to higher user satisfaction and lower operational costs.

Our first article deep dives into AI's contribution to simplify app development and reduce development cost.

In the second article, we will take a look at how AI can improve the functionality of taxi apps. Artificial Intelligence (AI), Taxi applications are already implementing digital enhancements that have generated new ways for suppliers to gain and maintain clients.

In the final article, we explore the UAE's journey towards AI dominance. The UAE's AI Strategy 2031 seeks to boost government performance, enhance economic growth, and foster innovation across various sectors including transportation, healthcare, space, and education.



30 CAN ARTIFICIAL INTELLIGENCE SIMPLIFY MOBILE APP DEVELOPMENT AND REDUCE COSTS?

In this article, we'll explore how AI can streamline mobile app development and lower development costs.

40 THE UAE'S JOURNEY TOWARDS AI DOMINANCE

The UAE recognizes the potential of AI and wants to play a leading role in the global AI landscape. To this end, the country is aggressively investing in AI research and development.

35 HOW AI CAN IMPROVE THE FUNCTIONALITY OF TAXI BOOKING APPS

Artificial Intelligence (AI) is widely used to streamline dynamic and time-consuming operations in taxi applications.

CAN ARTIFICIAL INTELLIGENCE SIMPLIFY MOBILE APP DEVELOPMENT AND REDUCE COSTS?



The rise of artificial intelligence (AI) has significantly impacted various industries, including mobile app development.

As the demand for mobile apps continues to grow, developers are constantly seeking innovative ways to simplify the development process and reduce costs.

Moreover, AI-powered tools can assist in areas like user interface design, where they can analyze user behavior to suggest intuitive design elements, or in quality assurance, where AI can perform automated testing and bug detection more thoroughly than manual testing.

Additionally, AI can facilitate more personalized user experiences by analyzing user data to provide tailored content and recommendations.

In this article, we'll explore how AI can streamline mobile app development and lower costs, as well as how partnering with a reputable development company like Royex Technologies can help you leverage AI in your mobile app projects.

“ AI can facilitate more personalized user experiences by analyzing user data to provide tailored content and recommendations

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How AI can streamline mobile app development and lower costs

Here are the ways AI can streamline mobile app development and lower costs:

Automating Repetitive Tasks

One of the primary ways AI can simplify mobile app development is by automating repetitive tasks.

This includes tasks like code generation, bug detection, and fixing.

By automating these processes, developers can save time and focus on more important aspects of app development, such as designing user interfaces and implementing new features.

Improved UX and UI Design

AI can help developers create better user experiences (UX) and user interfaces (UI) by analyzing user behavior and preferences.

By leveraging AI-powered tools, developers can generate personalized UX/UI designs that cater to individual user preferences, ultimately leading to more user-friendly and engaging mobile apps.



Did You Know?

- AI market will reach \$1.84 trillion by 2030
- 92% of companies use AI personalization for growth
- AI will create 97 million new jobs by 2025
- 97% of mobile users are already engaging with voice assistants powered by AI
- Users of apps with AI chatbot automation have positive satisfaction rates of 80%.

Enhanced Security

AI can also improve the security of mobile apps by identifying potential vulnerabilities and suggesting solutions.

By analyzing vast amounts of data, AI-powered security tools can detect patterns and predict possible threats, enabling developers to address security issues before they become critical.

Advanced Personalization and Recommendations

Incorporating AI into mobile apps can provide advanced personalization and recommendations for users. AI can deliver tailored content, offers, and suggestions by analysing user data, resulting in a more engaging and satisfying user experience.

AI-Powered Chatbots

AI-powered chatbots can simplify mobile app development by providing users with instant support and assistance. Integrating chatbots into your app can reduce the need for additional customer support resources and improve user satisfaction.

Accelerated Time-to-Market

Incorporating AI into the mobile app development process can significantly accelerate time-to-market.

By automating repetitive tasks, generating code more efficiently, and streamlining the testing process, AI-powered tools can help developers launch their apps more quickly, giving them a competitive edge in the fast-paced app market.

Enhanced App Testing and Quality Assurance

AI can also contribute to more effective app testing and quality assurance. By leveraging machine learning algorithms, AI-powered testing tools can automatically identify errors, crashes, and other issues, allowing developers to address them before releasing the app. This can result in higher-quality apps and improved user satisfaction.

Optimized App Maintenance

AI can optimize app maintenance by continuously monitoring app performance and identifying potential issues before they escalate. By analyzing user feedback and app usage data, AI can help developers prioritize updates and improvements, ensuring that the app remains relevant and competitive in the market.

AI-driven Marketing Strategies

AI can be used to create personalized and targeted marketing campaigns for your mobile app, leading to higher user acquisition and retention rates. By analyzing user data, AI can help you identify your target audience, develop customized marketing messages, and optimize your marketing budget for maximum impact.

Reducing Development Costs

By streamlining the development process and automating repetitive tasks, AI can help reduce mobile app development costs. Developers can save time and resources, allowing them to focus on other essential aspects of app development.

Additionally, improved security and predictive analytics can help avoid costly mistakes and enable developers to create more successful mobile apps. Artificial intelligence has the potential to revolutionize mobile app development by simplifying processes, enhancing user experiences, improving security, and reducing costs.

MOBILE APPS /

By partnering with an experienced and reputable mobile app development company like Royex Technologies, you can harness the power of AI and create innovative, engaging, and cost-effective mobile apps that stand out in the competitive app market.

As AI advances and its applications in mobile app development expand, businesses embracing this technology are more likely to succeed in the ever-evolving digital landscape.

Leveraging AI in mobile app development requires a combination of expertise and experience. Royex Technologies, a Dubai-based mobile app development company, offers both. With over 10 years of experience, 60+ developers, and a portfolio of more than 300 mobile apps, Royex Technologies is well-equipped to help you incorporate AI into your mobile app projects.

As an ISO certified company, Royex Technologies is committed to providing top-quality service and highly talented developers.

HOW AI CAN IMPROVE THE FUNCTIONALITY OF TAXI BOOKING APPS



In today's smartphone app development industry, Artificial Intelligence has been an important component. This innovative technology not only allows the maker of mobile apps to create new apps, but also to improve services.

There is a relentless struggle to get forward with the rising competition in the sector. On-demand taxi booking applications have since gained a prime role in both the industry and the devices of the consumer. For our day to day life events, this app has been a must.

Artificial Intelligence (AI) is widely used to streamline dynamic and time-consuming operations in taxi applications.

Taxi applications now come up with the newest developments that enable consumers to keep ahead of themselves and randomly.

Thus, to keep up with current times, consumers should use the taxi app to the utmost.

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Artificial Intelligence (AI) is widely used to streamline dynamic and time-consuming operations in taxi applications

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Artificial Intelligence (AI), Taxi applications are already implementing digital enhancements that have generated new ways for suppliers to gain and maintain clients.

AI helps overcome the repetitive holes of handling and aiding in organization activities while understanding humans.

How AI improves UX for taxi-booking applications

AI has empowered mobile taxi companies with a notch of personalization features to improve productivity.

Machine learning, deep learning, and predictive analysis are being utilized by businesses these days for improved performance. In addition to facilitating user engagement, the new implementation of an AI-based taxi dispatch support system has been rendered possible by these apps.

This is a whole different approach to expand the features of the taxi app. The emphasis is to streamline the app in accordance with the demands of both passengers and drivers.

Intelligent Decision Making

A taxi app is more about the user interface where AI allows users to make smarter and organized choices. The analysis of the taxi services guided by data helps to satisfy the consumers and their satisfaction ratings.

AI technology can send the users recommendations after a thorough and in-depth study of the historical pattern of an user. For example, AI can analyze a user's historical travel patterns, preferences, and behaviors to provide tailored suggestions, such as the most efficient routes, preferred payment methods, or frequently visited destinations.

This personalized approach not only streamlines the booking process but also enhances user satisfaction by making the service more intuitive and responsive to individual needs.

Autonomous Dispatch

For data processing and pattern recognition, AI is ideally the best option. Thus, to provide extremely reliable data to enable the taxi company to better mobilize resources.

Self-directed or autonomous dispatch aims to address the most critical concerns that concern the dispatch method. By redefining the layout of the taxi app services, this improves the accuracy standard of taxi services.

Optimized Routing

A taxi app with AI enabled is helpful in optimizing the route, which is helpful for both drivers and passengers. The optimization of the route is rendered possible by the introduction of a logic algorithm for the precise optimized driver directions.

This allows the driver to get the data-based filter calls: time and direction. The optimization of routes therefore allows taxi drivers to meet their destination in the shortest possible period.

Predictive Analysis

With the detailed processing of historical data, AI helps increase performance. AI effectively links the demand for taxis and time slots with the advanced strategies by analyzing the results. Data-driven research and predictive analysis are also beneficial in raising the level of challenging taxi services.

Personalization

These days, the excitement is high on personalization as customers enjoy personalized interactions. If you're thinking about developing a taxi booking app, AI capabilities will help you better measure your customers and also provide them with excellent experience. AI will help smarten the experience for the customers, just like eCommerce startups take account of historical surfing choices and sales.

You may use data analytics to provide a rider with intelligent choices on any ride linked to their most visited areas, sort of ride and other slight personalization.

All these will add up to the whole customer experience, building in their eyes a perfect brand impression.

Consumer Psychology

To grasp consumer psychology, AI can easily be used. The trip habits, payment mode, history of use and schedules will provide a lot of insights into your ideal customer's thoughts.

This will allow a business to truly identify users, build a data-backed consumer identity and reliably target them through marketing activities. Data-backed perspectives will only aid in promotions, but, as mentioned earlier, can boost the entire user experience.

Better Onboarding Process

There is no limit to the comfort and automation of the AI integration quotient. AI will assist operators in developing a streamlined on-boarding environment for drivers as well, not just for the users.

In the form of a chatbot with answers to popular questions, AI can be embedded and AI-powered training modules can be provided in real time if the rider is stuck with a query.

This will delight drivers and help build your brand's empathetic face, inspiring more drivers to link and thereby organically expand your taxi network, along with many other operational advantages.

Before requesting a ride using the AI-empowered algorithm, Uber helps the riders to know the cost of a journey. With AI ensuring total clarity between what a rider pays and what Uber receives on each journey, this app performs well.

AI in the taxi industry helps boost the experience of taxi journeys. So, when taking a market judgment, focus on historical patterns.

Predictive Forecasting allows streamline taxi services on demand when assessing the expense of the trip and minimizing the waiting period. The direction of the transportation industry is to increase the quality of Artificial Intelligence taxi services.

In the future, AI would certainly shift the way people travel about. And if you don't think of a way to easily incorporate AI into your operation, you have an opportunity to become obsolete.

Royex Technologies is the leading Website development and Mobile App Development Company in Dubai. Our expert mobile app developers in Dubai are committed to providing cost-effective mobile app solutions that generate more revenue for our clients. We have developed over 50 mobile apps of all kinds so we have the skill and expertise to deliver you a quality finished product that will grow your business.

THE UAE'S JOURNEY TOWARDS AI DOMINANCE



As the world becomes more connected and technology advances, AI is emerging as a game changer in various industries. The UAE recognizes the potential of AI and wants to play a leading role in the global AI landscape.

To this end, the country is aggressively investing in AI research and development, attracting innovative companies and skilled AI professionals. Let's look into the recent developments made in the country in its pursuit of AI dominance.

The UAE's AI Odyssey

Last year, at an AI research facility located on the outskirts of Abu Dhabi, a team of 25 computer scientists from various countries was finalizing a deep learning algorithm.

This algorithm was about to undergo training on 4,000 high-performance computer chips. The project, which required several million dollars for training, received funding from the Abu Dhabi government's Advanced Technology Research Council (ATRC).

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Despite the significant investment by the government, Faisal Al Bannai, the secretary general of ATRC, decided to release the completed model online for free.

He believed that if the model proved as effective as expected, enhancing the reputation of the United Arab Emirates (UAE) would be a sufficient return on the government's investment.

This strategy proved successful. When the AI, named Falcon after the UAE's national bird, was released to the public in September, it garnered widespread attention.

By various metrics, it was deemed one of the most advanced open-source large language models (LLMs) globally, surpassing offerings from Meta and Google. Al Bannai remarked, "Before Falcon's release, we were not on the map. But with 25 people, we did that. And it really created a surprise."

This event caught the attention of computer scientists worldwide. Philipp Schmid, an AI researcher at the machine-learning platform Hugging Face in Germany, noted, "The UAE was not well known, before, for training models.

But then, by more or less the next day, we knew that they can train models, they open-source their models, they publish research around it, which benefits all."

Falcon marked the initial step in the UAE's rapid advancement in the AI domain. Although the U.S. and China dominate this field globally, the UAE, situated between these superpowers, is gradually making a notable impact.

With a population of around 10 million, the UAE is heavily investing in AI as a means to diversify its economy away from oil dependency and extend its geopolitical influence.

In recent months, prominent CEOs from Silicon Valley companies such as Microsoft and Nvidia have visited the UAE, highlighting its growing importance in the tech world.

However, while Falcon showcased the UAE's potential to become an AI powerhouse, it also underscored a broader reality: the shaping of this transformative technology will largely be influenced by those with significant wealth and power in the existing world order.

Emirati officials point out several advantages they possess: ample financial resources to invest in top-tier computing hardware, abundant energy resources to support data centers, and favorable conditions to attract top AI talent.

Despite these advantages, the UAE's autocratic government and limited civil liberties pose challenges in attracting elite researchers.

Nevertheless, the UAE remains optimistic about its AI ambitions. AI Olama, the UAE's AI Minister, emphasizes the nation's commitment to improving the quality of life through AI while also aiming for economic growth.

He highlights the UAE's appeal to researchers and its efforts to facilitate global access to AI technologies.

One significant aspect of the UAE's strategy is its dedication to open-sourcing AI technologies. Falcon's release under an open-source license was followed by substantial investment in the Falcon Foundation to support ongoing open-source development.

This approach has not only enhanced the UAE's diplomatic standing but also facilitated technology transfer to developing nations.

Despite the challenges and geopolitical tensions, the UAE continues to forge partnerships with global tech firms. However, concerns over potential ties to China have led to scrutiny from the U.S. government, prompting the UAE to reassess its relationships.

Looking ahead, the UAE's ambitions in AI are poised to shape the global landscape of technology. However, the extent of its success may depend on navigating geopolitical complexities and aligning with the interests of key players like the United States.

Royex Technologies: Aligning with the UAE's AI Mission

Royex Technologies, a leading software company based in Dubai, UAE, has been instrumental in driving the country's AI agenda forward. We align perfectly with the UAE's AI aspirations through our innovative product portfolio:

Fleeto: The AI-Powered Fleet Management System

With the launch of Fleeto, an AI-powered Fleet Management system, we demonstrate its alignment with the UAE's mission to embrace cutting-edge technologies.

Our AI-powered fleet management system uses machine learning (ML) and artificial intelligence (AI) algorithms to transform fleet performance.

Offering real-time insights into vehicle performance, driver behavior, geofencing, and fuel efficiency, Fleeto empowers fleet managers to optimize routes, reduce costs, and improve safety—a perfect example of how AI innovation can contribute to the UAE's economic diversification and technological leadership.

A Commitment to Diverse AI Applications

At Royex Technologies, our efforts to promote AI-based innovation are not limited to the launch of Fleeto.

Our R&D team continues to work on AI innovations for a wide range of industries, showcasing our comprehensive approach to AI.

We are developing state-of-the-art machine learning and artificial intelligence frameworks to help solve specific industry-based issues and find new ways to develop and enhance operating processes.

Our many AI solutions, which span from developing enhanced, customized AI-based interactions to optimizing complex operational processes with intelligent automation, reflect our mission to drive positive change and enhance and ensure beneficial outcomes for all industries.

EYAANA: The Low-Resource AI Chatbot

Eyaana is an advanced AI-powered virtual assistant harnessing the power of advanced artificial intelligence (AI) to transform how companies engage with their customers. Unlike other virtual assistants that rely on external APIs or large datasets, Eyaana has been developed entirely in-house by our dedicated R&D team.

Our unique question-and-answering system, which currently utilizes only 2.9 Megabytes of data, sets Eyaana apart.

Our chatbot helps companies to meet their customers' communication needs in a preferred manner.

By integrating this cutting-edge technology into your customer communication and support strategies, you can unlock new levels of engagement and satisfaction.

Eyaana represents the next generation of virtual assistants equipped with cutting-edge technologies that enable businesses to communicate with their customers in a highly personalized and preferred manner.

Visual Recognition System

Our visual recognition technology plays a crucial role in the UAE's AI vision, especially in the areas of security and surveillance.

By being able to identify people, track their actions, and locate individuals with precision, it brings unmatched levels of security and operational efficiency.

In places like factories and warehouses, our system is essential for protecting the safety of workers, detecting unauthorized access, and managing security risks efficiently.

Furthermore, it helps law enforcement monitor crowds, identify suspicious activities, and enhance safety in different public areas. Offices and corporate environments are also benefiting from our visual recognition system.

By accurately identifying individuals, organizations can implement advanced attendance management systems, eliminating the need for manual record-keeping.

This not only saves time but also ensures transparency and accuracy in employee attendance.

Moreover, the system enables employers to track employee movements within the premises, analyze workflow patterns, and optimize workspace utilization. As a result, companies can improve productivity, enhance resource allocation, and create a more efficient work environment.

By using AI-powered visual recognition features, Royex enables various industries to address security issues and enhance operational processes in alignment with the UAE's overall AI goals.

In its pursuit of AI dominance, the UAE will rely heavily on collaborations among government entities, technology firms, and research institutions.

Royex Technologies' dedication to being innovative and offering a range of AI-based solutions establish it as a major influencer in shaping the future of AI in the UAE.

By utilizing the revolutionary capabilities of AI, both the UAE and Royex Technologies are ready to make a lasting impact on the worldwide technological scene.

To sum up, the UAE's path to becoming a leading force in AI is driven by ambition, creativity, and strategic collaborations.

Royex Technologies demonstrates the collaborative mindset behind this transformative process, highlighting AI's vast potential to revolutionize both industries and societies.

As the UAE progresses on its journey into AI, the collaboration between government initiatives and private-sector innovation will keep pushing development and influencing the future of AI.

ROYEX TECHNOLOGIES



LEADING MOBILE
APPS DEVELOPMENT
COMPANY IN DUBAI

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ABOUT-US /



We Are Cost Effective

At present we have five offices, our office for Sales & Support is in Dubai and Qatar, and two other offices in India and Bangladesh that oversee design and development. We employ over 50 people across these three locations.

By maintaining the minimum number of employees in Dubai, we are keeping our cost and price lower than other companies. Even so, because our support team is in Dubai, our customers can enjoy face to face meetings and explain their vision clearly. This is how we provide great service with a minimum cost.

Moreover, our online support system can provide our clients with trackable support. To further streamline our customer support and client comfort we provide our clients with warranty against bugs and errors.

Who Are We

Royex Technologies is a **website** and **mobile app** development company in Dubai that provides mobile app, web and design solutions for small, medium and large-scale companies. We have developed and successfully delivered more than 300 projects to date for our clients in Dubai, UAE and other Middle East countries.

We Are in Four Countries with Five Offices

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