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AWEBWARE 2025

IT Software Industry in Pakistan

By ICMA Research and Publications Department

Pakistan's IT sector is rapidly expanding, with ICT exports increasing by 28% to US\$ 1.86 billion in H1 FY 2024-25. Recognized as the "Tech Destination of the Year" at GITEX Global 2024, the industry demonstrates growing global competitiveness. The Digital Nation Pakistan Bill 2025 and the Digital FDI Initiative reinforce the country's commitment to digital innovation. With a young, skilled workforce, Pakistan aims to achieve an IT export target of up to US\$ 15 billion, strengthening its position as a global technology hub.

Historical Background







Sector Brief

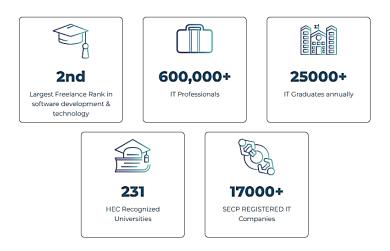
Pakistan's IT sector has demonstrated exceptional growth, with exports rising by 70% over the past three years, contributing approximately 1% to the nation's GDP, valued at \$3.5 billion. The sector has expanded significantly over the past four years and is expected to reach **\$7 billion** in the next two to four years. In the year 2024, the IT growth driven by Pakistan's was youthful, tech-oriented demographic of 227.3 million, with 175.62 million mobile subscribers and 82.90 million internet users.

A notable portion of the population, particularly those in the 15 to 29 age group, forms a dynamic and digitally literate

workforce, adding to the nation's growing talent pool. Over 25,000 IT graduates are produced annually, further strengthening the country's competitive position in the global digital market.



The IT sector encompasses more than **12,000** companies and has emerged as a competitive player in software development, mobile app creation, and freelancing. Pakistan ranks 3rd globally in freelancing and 5th on Upwork, underscoring its prominence in the international IT outsourcing landscape. Moreover, annual IT remittances through formal banking channels have experienced substantial growth, contributing to the sector's ongoing development. Over the last 5 years, IT export remittances have increased by 137% at a CAGR of 18.85%, while domestic IT revenue stood at \$1.2 billion. The workforce, which includes **300,000** English-speaking IT professionals, continues to drive the sector's growth. Pakistan's expanding digital infrastructure and skilled labor force make it an attractive destination for IT and IT-enabled services (ITeS) investments. Aligned with Pakistan Vision 2025 and the Digital Policy of 2018, the ICT sector aims to reach a **\$20 billion** market size by 2025



with investors confidence rising, driven by successful startups like Careem, Daraz, Zameen.com, and Rozee.pk attracting substantial funding. Additionally, traditional

> industries such as textiles and fertilizers are increasingly investing in the tech ecosystem, supporting further sector growth.

> With ambitious targets to elevate IT revenue to \$7 billion within the next few years, Pakistan is positioned to further capitalize on favorable government initiatives, such as a \$10 billion collaboration with South Korea to develop a technology park in Islamabad. The country's thriving startup ecosystem and growing investor interest in its digital economy further solidify its role as a key player in the global IT market. Moreover, Pakistan's IT exports hit \$324 million in November 2024, up 25% YoY but down 2%

MoM, with 5MFY25 exports rising 33% to \$1.53 billion, driven by SBP's relaxed retention limits and global client expansion.

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76 ICMA's Chartered Management Accountant, Jan-Feb 2025

SECTOR BRIEF



SWOT Analysis of IT Software Industry in Pakistan

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STRENGTHS

- Pakistan's IT industry benefits from a large pool of skilled and affordable software developers.
- Growing number of tech startups, particularly in Fintech, EdTech and mobile banking.
- High demand for software services in international markets due to competitive pricing.
- Increasing internet penetration and digital infrastructure support growth.
- Strong presence of tech incubators and accelerators promoting entrepreneurship.
- Government support through policies and initiatives aimed at the digital economy in years ahead.
- Freelancing sector growth, with Pakistan being one of the top countries for software outsourcing.
- Advanced software solutions being developed for key sectors such as healthcare, finance, and education
- Strong academic and research institutions contributing to the development of IT talent.
- Highly dynamic startups like Careem, Daraz, and Bykea having novel business models.

WEAKNESSES

- Intellectual property and cybersecurity risks in a fast-evolving digital landscape.
- Gaps in digital literacy among parts of the population, ٠ which can limit market adoption of tech products.
- Talent retention issues, with skilled tech professionals often migrating for better opportunities abroad.
- Lack of sufficient venture capital and support for early-stage tech startups.
- Heavy reliance on international markets for funding and technology adoption.
- Limited infrastructure and resources in certain regions ٠ can hinder broader adoption of technology.
- Cumbersome foreign exchange controls, complex ٠ licensing, and outdated labor and tax regulations weaken internal efficiency and hinder IT sector growth.
- Fragmented digital ecosystem, making it harder for startups to achieve scale quickly.
- Challenges in the accessibility of cutting-edge technology for smaller startups.
- Slow pace of innovation in certain traditional sectors and industries, restricting the potential of tech

OPPORTUNITIES

- Pakistan's software market is set to reach US\$1,045.00 million in revenue by 2025
- Enterprise software is expected to lead the market with a projected revenue of US\$480.30 million in 2025.
- Government support through policies like **0.25%** corporate tax and initiatives like Techlift boost industry growth.
- Pakistan's tech-driven economy is attracting global players seeking affordable software solutions.
- Developing cybersecurity expertise addresses global security needs and positions Pakistan as an emerging tech player.
- Hosting global tech events like APICTA and participating in GITEX and LEAP enhances Pakistan's global presence.
- International collaborations with countries like Saudi Arabia, UAE, Bahrain, Brazil, and Jordan boost IT outsourcing growth.
- Public-private partnerships involving P@SHA, MoITT, PSEB, and private sector firms will drive industry growth.
- The software market in Pakistan, valued at \$3.2 billion, continues to grow despite macroeconomic challenges.
- ♦ As per P@SHA 2023 report, Pakistan's ICT sector is expanding with over 19,000 registered companies, driving innovation and collaboration.

THREATS

- The absence of clear thematic and operational linkages in the National IT Policy and its alignment with other sector policies.
- Rise in Intellectual property risks and the potential for digital piracy threatening business integrity.
- Brain drain of skilled professionals seeking better opportunities abroad, leaving a talent gap.
- Extensive internet censorship, frequent firewall ٠ disruptions, inadequate data protection, and government surveillance undermine global competitiveness and deter international investment.
- Job displacement from automation may lead to social unrest and economic inequality.
- Political instability hinders long-term industry development.
- Increasing competition from regional tech hubs, such as India, which offer similar or more advanced services.
- The challenge of competing in international markets while maintaining high-quality standards.
- Policy barriers for Payment Service Providers (PSPs) and Operators (PSOs) may hinder e-commerce and digital transactions.
- Global economic downturns and internet service interruptions reduce demand for Pakistani IT products and services.



