

Machine Learning Engineer (Full-Stack)

Company: NextGen AI Solutions

Location: Cairo, Egypt (Hybrid / Remote)

About the Role

NextGen AI Solutions is seeking a Machine Learning Engineer (Full-Stack) to join our data science and engineering team. The ideal candidate is passionate about building scalable machine learning systems, integrating models into full-stack applications, and optimizing cloud-based deployment pipelines. You will collaborate with engineers, data scientists, and product managers to bring intelligent features from concept to production.

Key Responsibilities

- Design, train, and deploy machine learning models for analytics, recommendation, and automation systems.
- Integrate ML models with front-end applications using RESTful APIs (FastAPI, Flask, Node.js).
- Build and maintain data pipelines using Python, SQL, and cloud infrastructure (AWS/GCP).
- Optimize model performance and inference speed using TensorFlow, PyTorch, and Scikit-learn.
- Develop scalable web interfaces for AI-driven products using React and modern front-end tooling.
- Lead code reviews, model testing, and version control practices with Git and Docker.
- Collaborate cross-functionally to align model outputs with business goals.

Required Qualifications

- Bachelor's degree in Computer Science, Data Science, or a related field.
- 3–5 years of experience in software engineering or applied machine learning.
- Strong proficiency in Python and deep learning frameworks (TensorFlow, PyTorch).
- Experience building APIs and integrating ML into web apps (Flask, FastAPI, React, Node.js).
- Solid understanding of data preprocessing, model evaluation, and deployment in cloud environments (AWS/GCP).
- Familiarity with containerization (Docker) and Linux-based systems.
- Excellent problem-solving and teamwork skills.

Preferred Qualifications

- AWS Certified Machine Learning – Specialty or equivalent experience.
- Experience working on NLP and time-series forecasting projects.
- Prior experience leading small engineering teams or mentoring junior developers.
- Passion for open-source projects, AI ethics, and continuous learning.

What We Offer

- Competitive salary and flexible working hours.
- Opportunity to work on impactful AI-driven projects across multiple industries.
- Access to cutting-edge cloud and ML technologies.
- Professional growth through certifications, mentorship, and conferences.