

Ayesha Rahman

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Professional Summary

Machine Learning Engineer with 3+ years of experience building end-to-end ML pipelines, designing deep learning models, and deploying AI systems in production environments. Skilled in Python, TensorFlow, PyTorch, MLOps workflows, and cloud platforms including AWS and GCP.

Skills

Programming: Python, SQL, Bash
ML & AI: Deep Learning, NLP, Computer Vision, Model Optimization
Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn
Cloud & MLOps: Docker, Kubernetes, MLflow, TensorBoard, AWS Sagemaker
Data: Pandas, NumPy, Feature Engineering, Data Pipelines
Tools: Git, Airflow, Streamlit, FastAPI

Professional Experience

Machine Learning Engineer — NexaAI Technologies (June 2022 – Present)

Designed and deployed NLP models for text classification and entity extraction with 92%+ accuracy. Developed real-time inference APIs using FastAPI deployed on AWS Lambda + API Gateway. Built automated CI/CD pipelines for model retraining using GitHub Actions and MLflow. Engineered data pipelines processing 5M+ records daily using Airflow and PostgreSQL. Collaborated with product teams to translate business requirements into ML-powered features.

AI Research Intern — VisionLab AI (Jan 2021 – May 2022)

Implemented CNN-based image classifiers using PyTorch, improving baseline accuracy by 18%. Conducted hyperparameter optimization using Optuna, reducing training time by 30%. Co-authored a research paper on transformer-based computer vision models.

Education

B.S. in Computer Science
University of California, Berkeley (2017 – 2021)

Projects

Resume Analyzer using NLP

Built an NLP system that extracts key skills and matches candidate profiles to job roles using cosine similarity.

Real-Time Object Detection (YOLOv5)

Designed a real-time detection model deployed on GCP Compute Engine.

Chatbot using Transformers

Trained a Seq2Seq chat model using HuggingFace Transformers.

Certifications

TensorFlow Developer Certificate
AWS Certified Machine Learning – Specialty
DeepLearning.AI NLP Specialization