

MUHAMMAD YOUSAF RANA

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OBJECTIVE

Machine Learning Engineer with hands-on experience in MLOps, deep learning, and NLP, seeking a full-time role to build scalable AI systems and deploy production-grade ML pipelines.

EDUCATION

Bachelor of Science in Software Engineering, UET Taxila

2021 – 2025

CGPA: 3.40/4.0

(Graduation: June 2025)

Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Data Science, Software Development

SKILLS

Languages & Frameworks	Python, TensorFlow, Keras, Scikit-Learn, FastAPI, Flask, Streamlit
ML/DL Tools	Hugging Face, NVIDIA NeMo, Weights & Biases (wandb), CometML
MLOps & DevOps	Git, Docker, GitHub Actions, Conda, Codespaces
Cloud Platforms	AWS (SageMaker Studio Lab, Cloud9, AppRunner, ECR, S3), Google Colab
IDEs	VS Code, PyCharm, Jupyter Notebook
Soft Skills	Problem-Solving, Leadership, Communication, Teamwork

EXPERIENCE

ML Engineer Intern – EZITECH, Aug 2024 – Nov 2024: Boosted model accuracy by 10% via data cleaning, feature engineering, and implementing deep learning models (CNNs, RNNs) using TensorFlow.

Data Science Intern – Digital Empowerment Network, Jul 2024 – Aug 2024: Led a 3-member team to optimize anomaly detection models (Isolation Forest, Autoencoders), reducing false positives by 15%.

Data Science Intern – InternCraft, Jul 2024 – Aug 2024: Built a house price predictor (XGBoost, 92% R^2) and performed customer segmentation via RFM analysis.

PROJECTS

Summedify – Multimedia Summarization (FYP): Built an end-to-end system using LLaVA-Next-Video-7B, Whisper, and NLLB-200 for summarizing, transcribing, and translating text, audio, and video. Deployed multilingual FastAPI-based APIs.

CI/CD MLOps Pipeline on AWS, Azure & Hugging Face: Designed a full ML pipeline with automated training, deployment, and monitoring using SageMaker, Azure ML, and Hugging Face Hub.

Medical Paper Classifier: Developed a TensorFlow NLP model to classify sections (e.g., Abstract, Methods) in medical research papers.

FoodVision 101: Trained an EfficientNet-based model to classify 101 food categories with high accuracy.

Speech-to-Text ASR System: Fine-tuned and deployed an ASR model using NVIDIA NeMo and Streamlit for real-time transcription.

CERTIFICATIONS

- **Machine Learning Specialization** – Stanford University DeepLearning.AI (Taught by Andrew Ng)
- **Deep Learning Specialization** – Stanford University DeepLearning.AI (Taught by Andrew Ng)
- **MLOps Specialization** – Duke University (via Coursera)
- **Natural Language Processing (NLP) Certification** – NVIDIA