Muhammad Mubashir

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github.com/mubashir-yaseen · *AI Engineer — LLMs — Cloud AI — Educator*

Professional Summary

Visionary AI engineer and educator with a strong foundation in Electrical Engineering and expertise in Machine Learning, Deep Learning, NLP, and LLM-based systems. Proven record of delivering high-impact AI bootcamps, building production-grade ML solutions, and leading real-world capstone projects. Skilled in cloud-native AI deployment (Azure, AWS, GCP) and modern frameworks like TensorFlow, PyTorch, Rasa, and LangChain. Passionate about democratizing AI through education and innovation.

Technical Skills

Languages: Python, Java, C, C++, Assembly, SQL, HTML/CSS/JS
Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn, LangChain, Rasa, HuggingFace, Flask, Django, Streamlit
Cloud: Azure ML & Cognitive Services, AWS, GCP, Render, Streamlit Cloud
Data & DB: MySQL, PostgreSQL, MongoDB, Oracle SQL
Visualization: Matplotlib, Seaborn, Plotly, Power BI, Tableau
Tools: Git, GitHub, Jupyter, VS Code, Web Scraping, REST APIs, MS Office

Professional Experience

Lecturer – NAVTTC AI Bootcamp   *2025 – Present*
Iqra University, PMYSDP Batch 02 – Govt. of Pakistan

- Delivered 40+ technical sessions in AI, ML, NLP, and Cloud Deployment.
- Trained 100+ learners to deploy real-world ML models on Azure/GCP.
- Supervised 10+ capstone projects achieving 80–95% accuracy.
- Designed full-stack AI curriculum and freelancing prep.

Lab Engineer / Instructor – Department of AI   *2024 – Present*
Iqra University – FES & Technology

- Led labs for ML, Neural Networks, Python, NLP, and Computer Vision.
- Built lab manuals and assisted with NCEAC accreditation documentation.
- Guided semester-long projects in applied AI domains.

IT Trainee Officer – Tech Division   *2022 – 2023*
Bank AL Habib Ltd.

- Developed internal Java/Python tools to streamline workflows.
- Supported backend systems and managed IT infrastructure.

Research Officer – Power Lab, NUST   *2019 – 2020*
Department of Automation and Control

- Built predictive fault-detection models for transformers.
- Published performance metrics and proposed scalable solutions.

Education

MS Artificial Intelligence (In Progress)
NED University of Engineering & Technology, Karachi

BE Electrical Engineering *2016 – 2020*
National University of Sciences & Technology (NUST), Karachi

Highlighted Projects (GitHub: mubashir-yaseen)

- **Facial Emotion Detector (CNN)** – Achieved 87% accuracy with real-time webcam detection | GitHub
- **LLM-based SQL Query Tool** – LangChain + GPT to convert natural queries to SQL | GitHub
- **IoT Stress Detection System** – 92% accurate ML classifier using biosensors and ESP32 | GitHub
- **Rasa Chatbot for Campus Queries** – NLP-based intelligent assistant | GitHub
- **YOLOv5 License Plate Detector** – Trained CV model for smart parking automation | GitHub
- **Other Projects:** Diabetes Prediction, Heart Disease Classifier, Spam Detection, Movie Recommender

Certifications

- IBM Data Science Professional Certificate – IBM
- Machine Learning – Stanford University (Coursera)
- Deep Learning Specialization – Deeplearning.ai
- Azure AI Fundamentals – Microsoft
- Java Software Engineering – Duke University

Leadership & Volunteering

- Technical Lead – Team PNEC-NUST, Shell Eco Marathon
- IEEE Host and Project Lead – NUST-PNEC Chapter
- Sports Organizer – NUST Olympiad
- Volunteer – Dar-ul-Sakun, Sham-e-Ilm, Idara-al-Khair