Mohammad Rohail Zuberi

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EDUCATION

Information Technology University Lahore, Pakistan
Bachelor of Science in Computer Engineering *Dec. 2019 – June 2023*

Beaconhouse School System Lahore, Pakistan
A-levels in Mathematics, Physics, and Chemistry *Aug. 2017 – July 2019*

EXPERIENCE

Head of Artificial Intelligence July 2025 – Present
Autopilots *Lahore, Pakistan (Remote)*

- Lead AI & Engineering, building no/low-code automations with n8n and Make.com to streamline internal ops.
- Design and deploy Voice AI agents (receptionist, sales, support) for client-facing workflows.
- Orchestrate LLM and agentic-powered automations across lead gen, sales/onboarding, CRM, project management, payments, and cold email.
- Implement guardrails and human-in-the-loop verification for reliable, compliant automation at scale.
- Own end-to-end integration (APIs, webhooks, data pipelines), standardizing a scalable automation architecture.

AI Integration Engineer September 2024 – June 2025
Aerodyne Group *Lahore, Pakistan*

- Optimizing efficiency of 3D reconstruction pipeline running on Bentley's Context Capture by setting up multiple downsampling settings for input images cutting operating costs up to 30% per run.
- Developed a robust costing framework for AI pipelines running on AWS SageMaker, utilizing custom APIs and Pydantic models to automate cost-tracking across workflows.
- Transitioned CI/CD pipelines from GitHub Actions to Azure DevOps automating AI deployment process to AWS and Azure container registries saving up to 40% in operating costs.
- Upgraded python API utility functions to suppor t Azure Data Lake and AWS S3, facilitating multi-cloud data storage solutions.
- Implemented Azure ML to run AI pipelines along with existing AWS Sagemaker, ensuring compatibility and enhancing project flexibility across cloud environments.

Data Analyst July 2023 – August 2024
Aerodyne Group *Lahore, Pakistan*

- Organized and uploaded over 5 million images to AWS S3, optimizing storage solution using cloud.
- Automated data extraction of 15 million plus documents from 5 different MongoDB collection, leveraging custom APIs and dynamic Pydantic models, producing master data for PowerBI visualization.
- Created and reviewed annotation datasets, ensuring high-quality data for model training in computer vision pipelines.

Intern Research Assistant June 2022 – August 2022
Lahore University of Management Sciences *Lahore, Pakistan*

- Contributed to building and evaluating text & tabular ML models (scikit-learn, PyTorch).
- Applied feature engineering, preprocessing pipelines, and model metrics (accuracy, F1).
- Implemented custom PyTorch training loops with early stopping and learning-rate scheduling.

PROJECTS

LLM PDF Transcription | *Python, OCR, Firebase, OpenAI, GCP* November 2024

- Project included uploading a PDF to firebase storage which triggers a firebase function that outputs a JSON response storing it in the firebase Database.
- The code extracts the PDF text using easyOCR python library.
- The text along with a prompt is given to OpenAI's API which then outputs the desired response in JSON.
- The output is stored in firebase Database.

Criminal Infiltration ML Classifier | *Python, ML, XGBoost, LightBGM, scikit-learn* September 2024

- Wrote a python script to train various ML classifiers on a tabular financial dataset with 40+ features with extreme class imbalance to identity companies that have been criminally infiltrated.

Technical Skills

Languages: Python, C/C++
Data/ML: Pandas, NumPy, Matplotlib, scikit-learn, XGBoost
GenAI: OpenAI API, Claude/Claude Code, Gemini, Grok, Perplexity, n8n, Make.com, Cursor
Voice AI: Vapi, ElevenLabs, Retell AI
Cloud/DevOps: Docker, Docker Compose, GitHub Actions, Azure DevOps, AWS, Azure, Firebase, Google Cloud Platform
DBs: MySQL, MongoDB, Firebase
Orchestration: Airflow, Mage AI
RevOps/CRM: GoHighLevel (GHL), HubSpot, Webhooks
Developer Tools: Git, GitHub, GitLab, VS Code, Visual Studio, PyCharm, IntelliJ
Soft Skills: communication, leadership, problem-solving