Mateen Abid

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Education

Bachelor of Science in Data Science, FAST-NUCES, Lahore, Pakistan   April 2021 - June 2025

Skills

Programming: Python, C++, Django, JavaScript, HTML, CSS, R
Data & ML: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Keras, HuggingFace Transformers, OpenAI APIs, LLMs (BERT, GPT), Generative AI, Chatbot Development, NLP, Deep Learning, Data Mining, Feature Engineering
Data Engineering: SQL, Flask, REST APIs, Web Scraping, ETL Pipelines, Azure Cloud, Containerization, Cron Jobs
Automation & AI Agents: n8n, Make.com, Zapier, Retell AI, Calling AI Agents, Workflow Orchestration, API Integrations
Business Intelligence: Power BI, Tableau, Advanced Excel, Real-Time Dashboards, KPI Design
Tools: Git, GitHub, Jupyter Notebook, Google Colab, VSCode

Experience

AI Engineer (Part-time), Data Fuzeo, Lahore, Pakistan   Jul 2025 – Present
- Developed AI-powered automation systems and chatbots using LLMs (GPT, BERT) and Retell AI for real-world business workflows.
- Integrated n8n, Make.com, and Zapier with Python APIs to automate data pipelines and client operations.
- Designed RAG-based solutions and Power BI dashboards to deliver intelligent analytics and decision-support tools.

Data Analysis Intern, OZI Technology, Lahore, Pakistan   Jul 2024 – Aug 2024
- Automated data integration from ByteBrew API to SQL Server, improving data accessibility and reporting speed.
- Built interactive Power BI dashboards for real-time analytics, enhancing stakeholder decision-making.
- Scheduled cron jobs for seamless ETL processes and timely data updates.

Projects

CHARM: Chicken Health Assessment & Remote Monitoring (FYP)   Sep 2024 – June 2025
- Developed CHARM, an AI-powered web platform using YOLOv8, BoT-SORT, and ResNet50 for real-time poultry disease detection from video/images.
- Built Django-based system with role-based dashboards, supporting multi-camera input and live health analytics.
- Enabled automatic diagnosis of multiple diseases (e.g., fowl pox, cholera) with smart alerts and treatment recommendations.

Healthcare Translation Web App with Generative AI, Data Fuzeo   Client Project
- Architected an end-to-end AI communication platform enabling multilingual, speech-driven interaction between patients and doctors through real-time transcription, contextual translation, and voice synthesis.
- Integrated generative AI pipelines using OpenAI's Whisper for medical-grade speech recognition, GPT-based contextual translation refinement, and custom text-to-speech modules for natural multilingual playback.
- Engineered a secure, low-latency architecture with React + Vite frontend and Flask microservices, employing streaming inference, concurrency handling, and privacy-by-design principles for compliant healthcare data processing.

ByteBrew Data Automation System (Internship Project)   July 2024 – Aug 2024
- Built a Python-based ETL pipeline to extract and process analytics from the ByteBrew API using Pandas and PyODBC.
- Integrated processed data into SQL Server and connected it to Power BI dashboards for real-time game performance tracking.
- Scheduled automated daily updates using cron jobs to ensure continuous data synchronization and dashboard

accuracy.

Autonomous Driving Perception System using YOLOv8   Freelancing Project, 2025

- Built real-time object detection system using YOLOv8 on KITTI dataset to identify vehicles, pedestrians, and cyclists.
- Achieved high object localization accuracy; evaluated using precision, recall, and mAP for autonomous driving scenarios.

Certifications

- **No Code AI Agent Builder** – Simplilearn, Sep 2025
  Completed professional training on building AI-driven automation workflows using no-code platforms such as n8n, Make.com, and Zapier. Focused on designing AI agents integrating LLMs, APIs, and workflow orchestration.
- **OCI Generative AI Professional (in progress)** – Oracle Cloud Infrastructure, 2025
  Preparing for Oracle's official certification covering deployment of GenAI models using OCI services, including model selection, inference, and integration. Part of the Race to Certification program.