Muhammad Hammad

AI Engineer

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SUMMARY

AI Engineer specializing in scalable machine learning solutions, predictive analytics, and automated data workflows. Skilled in designing production-ready ML pipelines, interactive dashboards, chatbots, and API-driven systems using Python, FastAPI, and SQL. Focused on delivering high-accuracy models, optimized performance, and measurable value that enhances operational efficiency and business outcomes.

EDUCATION

Computer Systems Engineering, Mehran UET, Jamshoro 08-2023 to 06-2027 | Jamshoro, Sindh

WORK EXPERIENCE

Data Science Intern

12-2024 to 03-2025 | Remote

Code Alpha

- Achieved a **15–25% reduction in model error (MAE/RMSE)** by applying advanced preprocessing, feature engineering, and hyperparameter optimization using Scikit-Learn.
- Elevated classification accuracy by **12%** through refined feature selection techniques and robust cross-validation.
- Automated **80% of preprocessing tasks**, cutting data preparation time from hours to minutes and improving workflow consistency.
- Constructed deployment-ready ML modules that increased model stability and reduced integration challenges by **30%** for engineering teams.
- Strengthened dataset quality by resolving **95% of inconsistent or noisy records**, resulting in more reliable training data.
- Executed end-to-end model assessments (MAE, RMSE, precision, recall), enabling performance-driven decision-making and enhancing project efficiency.

SKILLS

Technical Skills

Programming & ML Tools: Python, Scikit-Learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, NLP, Computer Vision

Databases: MySQL, PostgreSQL, SQL Workbench

Frameworks & Deployment: FastAPI, Streamlit, Git, GitHub, Docker

Other Skills: API Development, Dashboarding, Data Cleaning, Feature Engineering

PROJECTS

UK Universities Analysis Dashboard

- Developed an NLP-powered dashboard processing **10,000+ student reviews**, delivering sentiment insights and rating predictions with **85–90% accuracy**.
- Enabled institutions to make improved academic and quality-enhancement decisions through data-backed insights.

Car Price Predictor

- Designed a Streamlit-based price prediction platform with **up to 92% accuracy**, analyzing mileage, age, enginecapacity, andvehiclespecifications.
- Provided reliable valuation outputs that support faster, more informed buying and selling decisions.

Karachi House Price Predictor

- Createda location-sensitive real estate valuation model delivering **90%+ R^2 score** using amenities, area size, and market trends.
- Equipped users and agents with dependable property valuation insights for improved negotiation and pricing decisions.