

AMAAR ALI

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OBJECTIVE

High-school ML developer with deployed AI projects (XGBoost, Transformers). Seeking a remote AI/ML internship to apply production-level skills in model development, data analysis, and deployment.

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript | Machine Learning/NLP: XGBoost, Random Forest, Logistic Regression, Transformers (Hugging Face), TF-IDF, Cosine Similarity | Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn | Web & Deployment: Flask, Jinja, HTML/CSS/JS, Railway

SELECTED PROJECTS

Stellar Classification (Deployed) — Built and deployed an XGBoost classifier to label stars, galaxies, and quasars. Validated on a 20k-sample test set with a strong weighted F1; integrated feature-importance visualizations.

Live: <https://web-production-9c609.up.railway.app/>

Solar Power Prediction (Deployed) — Engineered weather + generation features and trained an XGBoost regressor to forecast plant output (strong MAE/RMSE performance). Deployed Flask app for live predictions.

Live: <https://web-production-a0940.up.railway.app/>

Science MCQs Answering (NLP) — NLP app using Sentence Transformer embeddings + TF-IDF and Logistic Regression to predict MCQ answers with probabilistic scores; integrated into an interactive frontend.

News Topic Modeling (Unsupervised) — Applied TF-IDF, NMF, LDA and KMeans to extract topics from news articles and deployed visualization UI. **Live:** <https://web-production-f8e0.up.railway.app/>

Credit Card Fraud Detection (Real-Time) — Engineered a real-time fraud detection system using XGBoost with Adasyn for imbalanced data and hyperparameter tuning. Utilized **Socket.IO** for live data streaming, enabling instant flagging of fraudulent transactions.

ACHIEVEMENTS

- Deployed multiple full-stack ML applications (Stellar Classification, Solar Power Prediction, News Topic Modeling).
- Completed comprehensive SQL curriculum and university-level Linear Algebra, Calculus, and Statistics self-study.
- Built models demonstrating strong performance on classification, NLP and regression tasks (see project links).

EDUCATION

Government Boys High School, Hyderabad — High School (Computer Science focus). Expected Graduation: 2026

Interests

Curious about AI, Science, and mathematics, while actively building skills in coding and real-world AI systems; inspired by **innovators** past and present.