

Mohammad Akifullah

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EDUCATION

Muffakham Jah College of Engineering and Technology, Banjara Hills, Hyd.

Bachelor of Engineering Information Technology, May 2027

GPA: 8.0

Additional Courses: CS50: Introduction to Computer Science, Harvard University; Machine Learning Specialization - Andrew Ng (Coursera)

TECHNICAL SKILLS:

- **Languages:** Python, SQL, JavaScript.
- **ML/Data:** Scikit-Learn, Pandas, NumPy, XGBoost, LightGBM, CatBoost
- **Frameworks/Tools:** FastAPI, Node.js, Express, Docker, Git
- **Cloud/DB:** Google Cloud (GCP), AWS (S3), Render, PostgreSQL, SQLite

WORK EXPERIENCE

IBM SkillsBuild Data Analytics Internship, CSRBOX

Data Analytics Intern, June 2024-August 2024

- Achieved 1st place out of 123 teams (29,347 students) in a national-level challenge to develop a Road Accident Prediction Model.
- Analyzed and engineered features from crash incident data, correlating weather, time of day, and road characteristics to incident severity.
- Collaborated with 4 other students to develop a Road Accident Prediction Model for Safer Urban Transportation, utilizing machine learning to map out high-risk areas.

Google Developer Student Club, MJCET, Banjara Hills, Hyd.

Artificial Intelligence and Machine Learning Core Team, December 2023-July 2024

- Developed an Ad Recommendation model which utilized machine learning to estimate users' purchase preference.
- Collaborated with a team to organize Google club events across campus.

PROJECTS

Croplytics, *A farmer companion app for data-driven decisions*, October 2025

- Engineered features from soil nutrient data (N, P, K, pH) to identify key predictors for crop suitability using Pandas and Scikit-learn.
- Developed and trained a XGBClassifier to recommend crops, achieving 92% accuracy.
- Trained a XGBoost Regressor to predict crop yield, achieving a Mean Squared Error of 4.7.
- Built and deployed a high-availability REST API using FastAPI and Docker on Google Cloud Platform (GCP) to serve model predictions to the mobile app.

Road Accident Risk, *An ML competition held on Kaggle*, October 2025

- Achieved a top 20% ranking by developing a prediction model with a Mean Absolute Error of 0.05581.
- Engineered new features to capture non-linear patterns within the data.
- Trained and tuned multiple gradient boosting models (XGBoost, LGBoost, CatBoost) by using Bayesian Optimization to optimize hyperparameters.
- Utilized a weighted average ensemble of the models, optimizing weights based on cross-validation scores.

Envisage, *Project exhibition organized by Muffakham Jah College of Engineering and Technology*, July 2025

- Secured 2nd place for the project (SwiftBytes).
- Created a web application (SwiftBytes), facilitating takeaway services for canteens and restaurants
- Developed and deployed the backend on Render using Node.js/Express and a PostgreSQL database.
- Engineered the database to use Gemini API to provide insights on order trends, highlight issues, and provide recommendations.
- Utilized Amazon Web Services S3 for scalable image storage.

Pinterest extension, May 2025

- Designed a browser extension for Pinterest, implementing the feature of arrow key navigation.
- Published the extension on Chrome and Mozilla store for users.

ADDITIONAL SKILLS

Languages:

- English (advanced conversational skills)
- Hindi (Native Fluency) and Urdu (Native Fluency)