Javed Ahmad

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EDUCATION

- **B.Tech – Computer Science and Engineering (Health Informatics)** **Sept 2022 – May 2026**
  VIT Bhopal University **CGPA: 7.80 / 10**

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, SQL
- **Databases And Tools:** SQL, MySQL, SQLite, MongoDB, Power BI, Tableau, Excel, Figma, Git
- **Frameworks:** TensorFlow, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, SHAP, OpenCV, Streamlit

PROJECTS

Supplier Credibility Analysis *Python, Pandas, PyCaret, LightGBM, Scikit-learn*

- **Situation:** The sales team's outreach to over 300,000 unverified suppliers was inefficient and untargeted, leading to wasted effort on low-potential leads.
- **Task:** Leverage insights from an initial deep-dive analysis to build a predictive model that could score and rank suppliers for an efficient targeting strategy.
- **Action:** Performed an EDA to identify key trust predictors (age, tenure, location), then built a LightGBM classification model in PyCaret to score all unverified suppliers.
- **Result:** Produced a predictive model with 87% Recall and delivered a prioritized target list that empowered the sales team to strategically target high-potential leads.

Telecom Churn Analytics *Python, XGBoost, GridSearchCV, SHAP, Power BI*

- **Situation:** High customer churn was affecting retention for a telecom provider.
- **Task:** Created a model to classify and visualize at-risk users based on usage behavior.
- **Action:** Processed 7,043 records, trained XGBoost model (86% accuracy), and used SHAP for interpretability. Created Power BI dashboards to present churn insights and segmentation.
- **Result:** Enabled data-driven retention strategies; Stakeholders simulated a 22% reduction in churn using targeted actions.

SHopinion *Python, Transformers, PyTorch, SHAP, Streamlit*

- **Situation:** The business needed a scalable solution to quantify customer sentiment from thousands of unstructured text reviews and interpret the key drivers behind the feedback.
- **Task:** To develop and deploy an end-to-end NLP model that accurately classifies sentiment and provides transparent, word-level explanations for its predictions.
- **Action:** Bootstrapped initial labels using VADER, fine-tuned a DistilBERT model for classification, integrated SHAP for explainability, and deployed the final pipeline in an interactive Streamlit dashboard.
- **Result:** Achieved 96% accuracy and delivered an interactive dashboard that provides real-time, explainable sentiment insights, enabling a data-driven approach to understanding customer feedback.

Disease Outbreak Prediction System *Python, Random Forest, Streamlit, Folium, KMeans, GeoPandas*

- **Situation:** Inefficient public health planning for seasonal and geographic disease outbreaks in India required a predictive early-warning system.
- **Task:** To build a predictive model that classifies diseases from symptoms and visualizes outbreak hotspots to guide public health interventions.
- **Action:** Trained a Random Forest classifier on 5k+ symptom records, applied K-Means to identify geospatial clusters, and deployed a Streamlit dashboard with Folium heatmaps.
- **Result:** Delivered a model with 87% classification accuracy and deployed a dashboard that pinpointed 10 high-risk zones, enabling targeted public health responses.

LEADERSHIP AND INITIATIVES

- **Core Team, Sports Club** — Coordinated event logistics and operations for 200+ participants during the annual fest.
- **Event Lead, OWASP Club** — Organized 5+ technical events, successfully increasing member engagement by 50%.

CERTIFICATIONS

- **Generative AI Career Essentials** – IBM Career Education **Jan 2025 – Apr 2025**
- **Full Stack Developer MERN** – SmartBridge X MongoDB **Jan 2025 – Apr 2025**