Javed Ahmad

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EDUCATION

- **B.Tech – Computer Science and Engineering (Health Informatics)** **Sept 2022 – May 2026**
  VIT Bhopal University **CGPA: 7.64 / 10**

TECHNICAL SKILLS

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

PROJECTS

Stock Volatility Analyzer *Python, yFinance, Monte Carlo, Streamlit, VaR*

- **Situation:** Needed a real-time system for investors to quantify portfolio risk under volatile market conditions.
- **Task:** Create an interactive tool to calculate risk metrics, simulate price scenarios, and estimate VaR for selected assets.
- **Action:** Built a dynamic dashboard using Streamlit and yFinance to analyze financial indicators (returns, Sharpe ratio, beta); ran 10,000-path Monte Carlo simulations to estimate 1-year VaR at 95% confidence.
- **Result:** Boosted decision-making efficiency by enabling users to visualize risk trends and potential downside outcomes, enhancing investment strategy planning.

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.

Healthcare Cost Predictor *Python, Linear Regression, Random Forest, SVR, SHAP, Streamlit*

- **Situation:** Insurers struggled with predicting individualized healthcare premiums accurately.
- **Task:** Predict costs using personal and demographic data.
- **Action:** Built a machine learning models on 1,300+ entries, reaching 86% accuracy. Used SHAP for feature attribution and deployed on Streamlit for user interaction.
- **Result:** Provided interpretable premium forecasts for better planning by users and insurers.

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

- **Situation:** Seasonal and terrain-related disease outbreaks in India posed a challenge for early diagnosis and public health planning, particularly in climate-sensitive regions.
- **Task:** Develop a scalable ML-based web application to predict diseases from user-input symptoms and visualize outbreak trends across Indian regions.
- **Action:** Devloped and optimized a Random Forest model on 5k+ symptom-labeled samples, performed geospatial clustering (k=10) using seasonal and terrain-based data, and designed a Streamlit dashboard with real-time predictions and Folium-based heatmaps using GeoJSON overlays.
- **Result:** Delivered 87% classification accuracy across 15+ diseases and deployed an interactive visualization platform pinpointing 10 high-risk zones, aiding early detection and boosting public health response capacity.

LEADERSHIP AND INITIATIVES

Core Team – Sports Club, VIT Bhopal

- Coordinated event logistics and operations for 200+ participants during annual fest.

Event Lead – OWASP Club, VIT Bhopal

- Organized 5+ technical events, increasing 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**