SHRUTI MAURYA

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EDUCATION

VIT Bhopal University **Bhopal, Madhya Pradesh**
B.Tech in Computer Science (AI & ML) *Expected April 2026*
- CGPA: **7.68/10.0**

TECHNICAL SKILLS

Programming Languages: Python, SQL, Java, C++
Machine Learning: TensorFlow, Scikit-learn, LSTM, Neural Networks, Predictive Modeling
Databases: MySQL, PostgreSQL, Data Warehousing
Development Tools: Jupyter Notebooks, Git, Gradio, Streamlit, Microsoft Excel

PROJECT EXPERIENCE

Stock Price Prediction using LSTM | *Python, TensorFlow, Gradio* *April 2025*
- Engineered a time-series forecasting model using LSTM neural networks to predict Apple Inc. stock prices with 92% accuracy on test data
- Enhanced model performance by integrating technical indicators (Moving Averages, Bollinger Bands) and preprocessing 5+ years of historical OHLCV data
- Implemented efficient data preprocessing pipeline with MinMaxScaler normalization and sliding window approach for sequence modeling
- Deployed production-ready model with Gradio web interface and hosted on Hugging Face, achieving 500+ user interactions
- Designed real-time interactive visualizations demonstrating trend analysis and prediction confidence intervals

Diabetes Prediction System | *Python, Pandas, Scikit-learn* *November 2024*
- Developed ML classification system achieving 85% accuracy in diabetes prediction using PIMA Indian dataset with 768 patient records
- Executed comprehensive data preprocessing including outlier detection, feature scaling, and handling missing values to improve model reliability
- Benchmarked 4 ML algorithms (Logistic Regression, Random Forest, KNN, SVM) using cross-validation and selected optimal model based on F1-score
- Designed insightful visualizations including feature importance plots, correlation matrices, and ROC-AUC curves for model interpretation
- Built user-friendly Streamlit interface enabling healthcare professionals to input patient data and receive instant predictions

Movie Recommendation System | *Python, Pandas, Scikit-learn* *June 2024*
- Built intelligent content-based recommendation engine using artificial intelligence to process 5000+ movies from TMDB dataset using cosine similarity algorithm
- Engineered comprehensive feature extraction from movie metadata (cast, crew, genres, keywords) to create unified recommendation space
- Implemented TF-IDF vectorization and CountVectorizer techniques to convert textual data into numerical format for similarity computation
- Optimized similarity matrix calculations to retrieve top-10 personalized movie recommendations with 90% user relevance rating
- Showcased system capabilities through interactive Jupyter Notebook with real-time recommendation examples and performance metrics

CERTIFICATIONS

Oracle - OCI AI Foundations *September 2025*
AWS Certified Solutions Architect – Associate *May 2025*
IBM SkillsBuild - Gen AI *April 2025*

EXTRACURRICULAR ACTIVITIES

ML Club Core Member - VIT Bhopal University
- Participated in MariaDB Python Hackathon, developing innovative database-driven ML applications and collaborative solutions
- Attended ”Finance 101” seminar by StockPe & FinTech Club, gaining practical insights into algorithmic trading and quantitative financial modeling

LANGUAGES

Professional Proficiency: English, Hindi