Amit Kumar Mishra

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Career Objective

Actively seeking data science opportunities. Ready to apply analytical rigor and technical skills to drive team success.

Education

Bachelor in Physics
Marwari College, Bhagalpur (2021–2024)
CGPA: 6.7

Technical Skills

Programming & Languages: Python, SQL, JavaScript
ML & Data Science Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, XGBoost, NLP, Deep Learning, FAST API, Streamlit, Flask
Visualization & Tools: Tableau, Matplotlib, Plotly, Git/GitHub, Docker

Projects

Customer Churn Prediction System

- Built and deployed an ensemble ML model achieving 94% accuracy in predicting customer churn.
- Used feature engineering, hyperparameter tuning, XGBoost, and deployed via a Streamlit dashboard for real-time use.
- Implemented data preprocessing (handling imbalance with SMOTE, feature scaling), model training with multiple classifiers, and automated evaluation pipeline.
- Integrated interactive user inputs to generate instant churn predictions with probability scores.

E-commerce Recommendation Engine

- Developed a hybrid recommender (collaborative filtering + content-based).
- Increased user engagement by 35% through personalized product suggestions.
- Implemented using Pandas, Surprise, and Flask.
- Built preprocessing pipeline to clean user-item interaction data, extract text embeddings

from product descriptions, and merge with user preferences.
- Designed a REST API for serving recommendations and deployed with Docker for scalability.

Real-Time Sentiment Analysis Dashboard

- Created a live sentiment-monitoring dashboard for social media data using NLP, BERT, and Twitter API.
- Built dynamic visualizations with Tableau and maintained 89% classification accuracy.
- Integrated streaming pipeline to fetch tweets in real time, applied text preprocessing (tokenization, stopword removal, lemmatization), and classified using fine-tuned BERT.
- Designed interactive dashboards where users can filter by hashtags, time range, or sentiment type for insights.

Certifications

To be added later.

Summary

- Physics graduate applying mathematical modeling and statistical reasoning to solve real-world data problems.
- Hands-on experience in end-to-end ML workflows: modeling, deployment, dashboards.
- Competence in project translation from theory to production tools like Streamlit, Flask, Docker.