Renusri Periketi

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EDUCATION

University of Maryland, College Park
Master of Science, Data Science — May 2026
Course Work: Introduction to Data Science, Probability and Statistics, Principles of Machine Learning, Data Representation and Modeling, Big Data Systems, Algorithms for Data Science
GPA: 3.9

Sreenidhi Institute of Science and Technology, Hyderabad, TG, India
Bachelor of Technology, Electronics and Communication Engineering — June 2022
GPA: 3.3/4.0

TECHNICAL SKILLS

Programming & Scripting: Python, R, SQL, MATLAB, Bash
Data Analysis & Manipulation: Pandas, NumPy
Machine Learning & Modeling: Scikit-learn, XGBoost, TensorFlow, Keras, PyTorch
Data Visualization: Matplotlib, Seaborn, Plotly, Tableau, Power BI
Databases: MySQL, PostgreSQL, MongoDB, SQLite, Elasticsearch
NLP & Text Mining: NLTK, spaCy, HuggingFace Transformers
Version Control & Tools: Git, Docker, Jupyter, VS Code, Linux, LaTeX

PROJECT EXPERIENCE

Analyzing Airlines On-time Performance Data and Predicting Flight Delays
- Built models (Logistic Regression, Random Forest, XGBoost, Neural Networks) to forecast flight delays on 296K+ records.
- Applied feature engineering, encoding, scaling, and handled class imbalance with SMOTE.
- Derived insights on delays and cancellations to inform predictive modeling and operational strategies.

Bitcoin Price Trend & News Correlation (Elasticsearch, Kibana)
- Developed real-time pipeline to ingest and analyze live Bitcoin prices and crypto news.
- Performed anomaly detection and semantic matching using Sentence Transformers.
- Visualized price-news correlations and trends via interactive Kibana dashboards.

Video Recommendation & Insights (Streamlit)
- Built a TF-IDF + FAISS-based recommendation system on 100K+ trending videos across 113 countries.
- Integrated fuzzy matching (FuzzyWuzzy) and developed a Streamlit dashboard with filters, clickable links, and analytics.
- Preprocessed data with deduplication, feature extraction, and optimized for performance.

WORK EXPERIENCE

Innova Solutions Pvt Ltd, Hyderabad, India — *Associate Software Engineer* — July 2022 – July 2024
- Built full-stack solutions for e-commerce and corporate platforms using Ruby on Rails, PHP, and WordPress.
- Enhanced UX/UI with HTML, CSS, JavaScript, Bootstrap
- **E-Commerce Portal**: Improved invoicing, added interactive features with jQuery/Ajax, optimized DBs, and tested with RSpec.
- **Corporate Platform**: Designed intuitive UIs, handled server-side logic, SEO (Yoast), and boosted performance via CDN.
- Used tools like BigQuery, Elasticsearch, New Relic, and Git for analytics, monitoring, and version control.
- Refactored legacy codebases to enhance performance and scalability.

LEADERSHIP AND VOLUNTEER EXPERIENCE

Sreenidhi Photography Club- SNIST, Hyderabad, TG, India
Board Member — March 2020 – May 2021
- Volunteered in Canon Photography workshop and various college events during the cultural fest.