Thanmaya Sri Sigireddi

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EDUCATION

State University of New York at Buffalo, Masters in Data Science Jan 2024 – May 2025
Relevant Coursework: Statistical Data Mining, Machine Learning, Pattern Recognition, Probability and Data Analysis, Database Management System, Numerical Methods.

VNR Vignana Jyothi Institute of Technology and Engineering, Jun 2019 – May 2023
Bachelors of Technology in Electrical and Electronics Engineering
Relevant Coursework: Machine Learning, Deep Learning, Artificial Intelligence, Data Structures and Algorithms, OOPS Concepts, C Programming, Artificial Neural Networks and Fuzzy Logic.

PROFESSIONAL EXPERIENCE

Data Analyst Intern, Perfect Job Accord Dec 2022 – Dec 2023
- **Data-Driven Recruitment Analytics**: Developed predictive models using **Python** and **scikit-learn** to analyze recruitment data, enhancing candidate-job matching efficiency by 25%.
- **Business Intelligence Reporting**: Created interactive dashboards in **Power BI** and **Tableau**, delivering real-time insights into staffing operations and client engagements, leading to a 15% improvement in decision-making speed.
- **Data Preparation & Feature Engineering**: Processed and transformed raw recruitment datasets using **Pandas** and **NumPy**, engineering meaningful features that significantly improved model accuracy and interpretability.

PROJECTS

Detox Dial– AI-Powered Digital Wellness App
- Developed a **multi-modal AI intervention system** to help users break digital addiction, integrating GPT-based chat, AI driven phone calls, and behavioral analytics.
- Leveraged **data analytics** and **machine learning** to monitor user behavior and deliver personalized detox recommendations, boosting user engagement.
- Utilized cross-platform development and modern **UI/UX** design principles to create an intuitive interface that significantly enhanced the overall user experience.

Design & Implementation of Relational Database for Laptop Specifications
- Engineered a BCNF-normalized **PostgreSQL** database for 5,000+ laptop records, ensuring efficient querying, data integrity, and performance optimization.
- Implemented **advanced SQL** techniques, including **stored procedures**, **indexing**, and **CTEs**, to accelerate analytical queries for market trend prediction.
- Built **ETL** pipelines using **Pandas** and **SQLAlchemy**, enabling seamless data ingestion, transformation, and structured storage for real-time analytics.

Clustering of Cryptocurrency Price Movements
- Analyzed historical **cryptocurrency** price data using Principal Component Analysis (**PCA**) for dimensionality reduction and **K-Means** & **Hierarchical Clustering** for segmentation.
- Developed an interactive visualization dashboard in **R (Shiny)** to explore volatility, trends, and cluster relationships, aiding investors and financial analysts.
- Implemented custom **statistical feature engineering**, incorporating moving averages, correlation analysis, and volatility metrics for improved cluster interpretability.

SKILLS

- **Programming & Scripting:** Python, R, C, HTML, CSS
- **Big Data & Databases:** PostgreSQL, MySQL, Google BigQuery, AWS S3, Snowflake
- **Frameworks/Libraries:** Machine Learning, Deep Learning, NLP, Pandas, Numpy, TensorFlow, PySpark
- **Visualization & Tools:** Tableau, Power BI, Excel, UI/UX Design

CERTIFICATES

- Data Science Foundations - Great Learning Academy ✐
- Python - Excel Solutions ✐
- AI-Integrated Application - AI for Good Hackathon ✐
- Data Science internship - Plasmid ✐
- SQL - Excel Solutions ✐
- Microsoft Power Bi - Excel Solutions ✐