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, Aritificial Intelligence, Data Structures and Algorithms, OOPS Concepts, Data Structures, C Programming.

PROFESSIONAL EXPERIENCE

Data Analyst Intern, Perfect Job Accord   Dec 2022 – Dec 2023

- Developed and optimized **big data pipelines** using **Linux,** and **Spark**, improving data processing efficiency by 30%.
- Built and deployed **machine learning models** for predictive analytics, including deep learning, time-series forecasting, and unsupervised learning, leveraging **Python, PySpark,** and **TensorFlow**.
- Led data-driven decision-making by designing ETL workflows, interactive dashboards **(Power BI, Tableau)**, and **statistical analysis**, enabling strategic insights for business growth.

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 ✏
- AI-integrated application - AI for Good Hackathon ✏
- SQL - Excel Solutions ✏
- Data Science internship - Plasmid ✏
- Python - Excel Solutions ✏
- Microsoft Power Bi - Excel Solutions ✏