# Thanmaya Sri Sigireddi

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 ● Buffalo
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#### **EDUCATION**

State University of New York at Buffalo, Masters in Engineering Science Data Science Jan 2024 – May 2025

VNR Vignana Jyothi Institute of Technology and Engineering, Bachelors of Technology in Electrical and Electronics Engineering

Jun 2019 – May 2023

# PROFESSIONAL EXPERIENCE

#### Data Analyst, Nucleus Business Solutions

May 2023 - Dec 2023

- Developed predictive models using **scikit-learn** to forecast employee attrition and hiring demands, improving planning accuracy for HR teams.
- Engineered **ETL pipelines** with **PySpark** and **SQL** to automate the integration of recruitment, payroll, and performance data across systems.
- Created dynamic dashboards using **Power BI** and **Tableau** to monitor HR KPIs, enabling leadership to track hiring efficiency, employee engagement, and retention metrics in real time.

## **Data Analyst Intern, Nucleus Business Solutions**

Oct 2022 – Apr 2023

- Utilized **Python** (**Pandas, NumPy**) and **SQL** to clean, process, and analyze HR datasets, uncovering key insights into recruitment funnel efficiency, sourcing effectiveness, and patterns contributing to employee attrition.
- Built **Power BI** dashboards to visualize time-to-hire, sourcing effectiveness, and candidate pipeline metrics.
- Assisted in developing **exploratory data analysis** reports and **statistical** summaries to support data-driven HR decision-making, talent acquisition strategies, and workforce planning initiatives.

## **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, SQL (Advanced), HTML, CSS
- Big Data & Databases: PostgreSQL, MySQL, Google BigQuery, AWS (S3, Lambda, EC2, Athena), Snowflake
- Frameworks/Libraries: Machine Learning, Deep Learning, NLP, Pandas, Numpy, TensorFlow, PyTorch, Scikit-learn
- Visualization & Tools: Tableau, Power BI, Advanced Excel, UI/UX Design, Plotly, Streamlit

#### **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 @