

# Thanmaya Sri Sigireddi

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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

<b>Data Analyst, Nucleus Business Solutions</b> <ul style="list-style-type: none"><li>Developed predictive models using <b>scikit-learn</b> to forecast employee attrition and hiring demands, improving planning accuracy for HR teams.</li><li>Engineered <b>ETL pipelines</b> with <b>PySpark</b> and <b>SQL</b> to automate the integration of recruitment, payroll, and performance data across systems.</li><li>Created dynamic dashboards using <b>Power BI</b> and <b>Tableau</b> to monitor HR KPIs, enabling leadership to track hiring efficiency, employee engagement, and retention metrics in real time.</li></ul>	May 2023 – Dec 2023
<b>Data Analyst Intern, Nucleus Business Solutions</b> <ul style="list-style-type: none"><li>Utilized <b>Python (Pandas, NumPy)</b> and <b>SQL</b> to clean, process, and analyze HR datasets, uncovering key insights into recruitment funnel efficiency, sourcing effectiveness, and patterns contributing to employee attrition.</li><li>Built <b>Power BI</b> dashboards to visualize time-to-hire, sourcing effectiveness, and candidate pipeline metrics.</li><li>Assisted in developing <b>exploratory data analysis</b> reports and <b>statistical</b> summaries to support data-driven HR decision-making, talent acquisition strategies, and workforce planning initiatives.</li></ul>	Oct 2022 – Apr 2023

## PROJECTS

<b>Detox Dial- AI-Powered Digital Wellness App</b> <ul style="list-style-type: none"><li>Developed a <b>multi-modal AI intervention system</b> to help users break digital addiction, integrating GPT-based chat, AI driven phone calls, and behavioral analytics.</li><li>Leveraged <b>data analytics</b> and <b>machine learning</b> to monitor user behavior and deliver personalized detox recommendations, boosting user engagement.</li><li>Utilized cross-platform development and modern <b>UI/UX</b> design principles to create an intuitive interface that significantly enhanced the overall user experience.</li></ul>
<b>Design &amp; Implementation of Relational Database for Laptop Specifications</b> <ul style="list-style-type: none"><li>Engineered a BCNF-normalized <b>PostgreSQL</b> database for 5,000+ laptop records, ensuring efficient querying, data integrity, and performance optimization.</li><li>Implemented <b>advanced SQL</b> techniques, including <b>stored procedures</b>, <b>indexing</b>, and <b>CTEs</b>, to accelerate analytical queries for market trend prediction.</li><li>Built <b>ETL</b> pipelines using <b>Pandas</b> and <b>SQLAlchemy</b>, enabling seamless data ingestion, transformation, and structured storage for real-time analytics.</li></ul>
<b>Clustering of Cryptocurrency Price Movements</b> <ul style="list-style-type: none"><li>Analyzed historical <b>cryptocurrency</b> price data using Principal Component Analysis (<b>PCA</b>) for dimensionality reduction and <b>K-Means &amp; Hierarchical Clustering</b> for segmentation.</li><li>Developed an interactive visualization dashboard in <b>R (Shiny)</b> to explore volatility, trends, and cluster relationships, aiding investors and financial analysts.</li><li>Implemented custom <b>statistical feature engineering</b>, incorporating moving averages, correlation analysis, and volatility metrics for improved cluster interpretability.</li></ul>

## 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

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| • Data Science Foundations - Great Learning Academy <a href="#">🔗</a> | • Data Science internship - Plasmid <a href="#">🔗</a>    |
| • Python - Excel Solutions <a href="#">🔗</a>                          | • SQL - Excel Solutions <a href="#">🔗</a>                |
| • AI-Integrated Application - AI for Good Hackathon <a href="#">🔗</a> | • Microsoft Power Bi - Excel Solutions <a href="#">🔗</a> |