

Thanmaya Sri Sigireddi

Data Analyst

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EDUCATION

State University of New York at Buffalo, *Master of Science in Data Science* Jan 2024 – May 2025 | Buffalo, NY

VNR Vignana Jyothi Institute of Technology and Engineering, Jun 2019 – May 2023 | Hyderabad, India
Bachelor of Technology in Electrical and Electronics Engineering

Courses: Mathematics, Statistics, Data Modeling, Deep Learning, LLM, Data Structures and Algorithms, Data Analytics, Data Mining, Predictive Analytics, Business Intelligence and Business Analytics

PROFESSIONAL EXPERIENCE

Nucleus Business Solutions, *Data Analyst* May 2023 – Dec 2023 | Hyderabad, India

- Implemented ETL pipelines using PySpark and SQL, unifying HR datasets and boosting reporting accuracy by 30%.
- Redesigned stakeholder reporting workflows by designing Tableau dashboards with drill-down capabilities that automatically updated, reducing report generation time from two days to four hours, and improved decision-making.
- Built attrition prediction models using Scikit-learn (Random Forest, Logistic Regression) on pre-offer and onboarding data, which improved candidate risk identification and reduced hiring costs by 20%.
- Enhanced semantic models and DAX logic to boost Power BI report rendering speed by 35%.

Nucleus Business Solutions, *Data Analyst Intern* Oct 2022 – Apr 2023 | Hyderabad, India

- Constructed 10+ dashboards using Power BI with slicers, drill-throughs, bookmarks, and custom DAX measures to track offer trends, recruiter performance, and candidate drop offs, reducing offer rejection rates by 12%.
- Streamlined recurring reports by scripting SQL + Python data extraction workflows for recruitment trend insights.
- Explored end-to-end hiring funnel conversion using ad hoc SQL queries, increasing sourcing efficiency by 10%.
- Extracted features from candidate and HR process data to support predictive modeling during hiring campaigns.

PROJECTS

Detox Dial: AI-Powered Digital Wellness App,

Personalized Behavioral Nudging, NLP-based Profiling, and Real-Time User Engagement

- Engineered 5+ REST APIs using Flask to automate interventions from usage patterns, cutting manual checks by 40%.
- Integrated custom MBTI-based profiling logic for 16 personality types, improving intervention accuracy by 60%.
- Deployed Twilio Voice API to automate 1,000+ personalized calls, boosting trial user retention by 30%.
- Enabled adaptive message tone selection using MBTI personality traits, reduced app relapse rates by 25% through adaptive messaging.

SpecTrack: Laptop Specification Analytics Engine,

Relational Database Modeling, Query Optimization, and Consumer Insights

- Designed a normalized PostgreSQL schema with 12+ tables and 50+ constraints to manage 5,000+ laptop records.
- Formulated 15+ stored procedures for querying, filtering, and price validation, improving data quality and audit traceability.
- Tripled query performance by indexing laptop specs (price, RAM, GPU), accelerating analysis and dashboard speed.
- Cleaned raw CSVs (20+ fields) using Python and SQL, boosting data integrity to 85%+ and enabling reliable analytics.

SKILLS

- **Programming & Scripting:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Web Scraping), R, SQL, VBA for Excel, Bash, PowerShell
- **Databases:** MySQL, PostgreSQL
- **ETL & Warehouses:** Snowflake, Amazon Redshift
- **Data Visualization and Data Reporting:** Tableau, Power BI (DAX, RLS), Excel Pivot Tables, Charting & Dashboard Design, Amazon QuickSight
- **Machine Learning:** Regression, Classification, Clustering, Decision Trees, Neural Networks, Time Series
- **Tools:** GitHub, MS Excel (Advanced Functions, Macros, Pivot Tables), MS PowerPoint, MATLAB
- **Data Governance, Security & Compliance:** Role-Based Access Control (RBAC), AWS IAM, Data Lineage & Governance Practices

CERTIFICATES

- Amazon Web Services: AWS Certified Cloud Practitioner
- Amazon Web Services: AWS Certified Data Engineer - Associate