Sahithi Keshireddy

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EDUCATION

University of Massachusetts Dartmouth   **05/2025**

Masters, Computer and Information Science   Dartmouth, MA, USA

Courses: Database Management System, Data Visualization, Data Mining, Design and Analysis of Algorithms, Advanced Machine Learning, IOT Analytics, Artificial Intelligence, Neural Network and Deep Learning and Business Intelligence.

Jawaharlal Nehru Technological University   **05/2022**

Bachelor of Technology, Computer Science   Hyderabad, India

WORK EXPERIENCE

Volvo Group, Data Analyst Intern(Certification & Compliance)   **May 2023-August 2023**

-Automated **ETL pipelines using Python, Pandas, SQL, and Azure Data Factory**, improving data integrity and reducing manual effort by 60%. Built scalable **dashboards in Power BI and Vega-Lite**, supporting executive decision-making and improving visibility into certification bottlenecks.

-Served as a core data contributor supporting analytics for certification and compliance across engineering and production teams.

- Defined **KPIs** and **developed predictive models (scikit-learn)** to forecast certification gaps and operational delays.

-Implemented **text mining (spaCy)** on regulatory documents to surface key compliance indicators and reduce audit preparation time.

FactSet, Data Solutions Engineer   **Nov 2022- Aug 2023**

-Partnered directly with global clients to **understand analytical needs** and developed custom data solutions **using SQL, Python (Pandas), and Power Query**—enabling accurate, on-demand reporting across finance and product domains.

-Transformed client-side semi-structured data into structured datasets compatible **with DB2 systems**, enhancing integration with FactSet tools and enabling more effective decision-making through Power BI dashboards.

-Automated data delivery and monitoring processes **using Apache Airflow and Power Automate**, reducing data latency and increasing reliability of critical client-facing analytics solutions.

Cognizant, Full Stack Developer Intern   **May 2022-Oct 2022**

- Developed **RESTful APIs** with response times under 200ms to support real-time data access for dashboards and machine learning pipelines, ensuring seamless integration between backend services and front-end applications.

- Performed **statistical analysis** and visualization **using R,** generating insights that influenced product decisions and optimized machine learning models through data-driven feature refinement.

PROJECTS

Title: Stock Price Forecasting

-Performed Exploratory Data Analysis (EDA) on historical stock prices (Apple, Google, Nvidia, etc.) using **Python (Pandas, NumPy, Matplotlib, Seaborn)** to identify trends, correlations, and volatility patterns.

-Developed time series models (resampling, moving averages) and correlation analyses (**heatmaps, PairGrid**) to identify relationships between tech stocks (Microsoft-Google correlation: 0.96), enabling data-driven investment insights.

-Automated EDA workflows by preprocessing **11,047+ records (handling missing data, datetime conversion)** and visualizing trends via **Matplotlib/Seaborn** (line plots, rolling averages, percentage change analysis).

-Presented actionable findings through dynamic dashboards using **Power BI and reports**, highlighting key patterns like Apple's daily returns and quarterly resampling trends to guide risk assessment strategies.

Title: Statistical Analysis: A/B testing and Machine Learning

-Used **Python (Pandas, StatsModels, Matplotlib)** to analyze conversion rates, calculate p-values, and visualize results, concluding that the old webpage performed better statistically (p-value 9.6% > 5%).

-Applied **logistic regression** and feature engineering (time-based segmentation) to model user behavior, ensuring robust decision making while identifying key factors influencing conversions.

SKILLS

Programming Languages and Libraries: Python, Java, R, C++, openpyxl

Libraries: Pandas, NumPy, scikit-learn, spaCy, Matplotlib, Seaborn, TensorFlow, Keras

Data: ETL, A/B Testing, Statistical Modeling, Predictive Analytics

Cloud & DBs: Microsoft Azure, AWS Glue, Firebase, InfluxDB, MySQL, MongoDB

Tools: Power BI, Excel, Tableau, Apache Airflow, Redshift, Power Automate, GIT, Docker, Looker.

CERTIFICATIONS

-Microsoft Certified: Power BI Data Analyst Associate

-IBM Data Analyst Professional Certificate

-Udacity – A/B Testing for Data Science

-Looker Business Analyst Certification