

VENKATA SAI SWATHI

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Devoted and goal-oriented professional with year of experience and proven track record in field of data analysis and computer science, with dedication to meeting deadlines and producing work of highest caliber. Exceptional leadership, Strategic, Teamwork and problem-solving skills. Known for Self-Starter, Versatility, Growth, High-level attention to detail, Innovation and verbal communication

EDUCATION

Northeastern University - Boston, MA

GPA 3.5/4.0

Master's in Data Analytics (Major: Computer Engineering)

Expected May 2024

- Coursework: Data Mining, Computation and Visualization, Database Management for analytics, Deterministic Ops Research, Statistical Methods

Lovely Professional University

Punjab, India

Bachelor's in Computer Science and Information

April 2022

SKILLS

PROGRAMMING LANGUAGES

Python, R, Java, C/C++

DATABASE TOOLS

Snowflake, Oracle, MySQL, Mongo, Microsoft SQL Server, PowerPoint, Excel

DATA TOOLS

Tableau, Power BI, Data Wrapper, Hadoop, Spark, Qlik

TECHNOLOGIES

Data Warehousing, Data Science, AI/ML Methodologies, ETL

CLOUD & TOOLS

Azure, AWS, Jira, MS Office, Git, Google Cloud Platform

LIBRARIES

Matplotlib, NumPy, Seaborn, Scikit-Learn, NLTK, TensorFlow, ggplot, Plotly, Keras, NumPy, Pandas

WORK EXPERIENCE

Data Analyst Intern|| Working Student – Bosch Siemens and Home Appliances

June 2021 - July 2022

- Tableau was used to create interactive dashboards for analyzing revenue data, which had an influence on key stakeholder's choices and reduced manual entry by about 48%
- Brainstormed with 7 businesses to understand requirements and provided recommendations that improved processes, reduced costs, increases revenue and enhanced customer experience by 60%
- Analyzed and documented an automated system for testing, tracking customer orders, resulting in increased business objectives efficiency and reduced order processing time by 89%
- Created 3758 records data into actionable insights by predicting and modeling future predictions using NLP, Python
Tech Stack: Python, Power BI, Tableau, AWS, Azure DevOps, MYSQL, SQL Server, ETL, Apache Spark MS Excel

PROJECTS

DEFECT DETECTION IN MANUFACTURING USING MACHINE LEARNING

July 2023 - Present

- Collecting data from sensors and instruments used in manufacturing process, Cleaning and Preprocessing the data, handling missing values, normalizing data and converting into suitable format for perfect high-end analysis
- Building Machine Learning models CNNs for image data or classification algorithms and validating its performance using separate validation dataset and finetuning model for better accuracy, integrating the system with alerting mechanism
- Implementing Real time manufacturing environment, monitoring model's performance, preparing user-friendly interface for visualizing results including statistics on defect rates and trends, documenting entire process, summarizing project
Tech Stack: Data Collection, Preprocessing, Python, MySQL, Machine Learning Models, Power BI etc.

ANALYSIS OF HOSPITAL READMISSION RATES

January 2023 - Present

Northeastern University

- Performing EDA to gain insights, Visualizing patient demographics, readmission rates and identifying relevant features, using statistical tests to investigate relationships between features and readmission rates, creating informative visualization trends
- Building predictive model's to forecast likelihood of patient readmission, accessing the performance of predictive models using metrics of ROC and interpreting results into actionable insights, which factors are most strongly associated with readmissions?
- Illustrating visualizations and analysis, bar charts, scatterplots and discussing ethical consideration and collaboration to patient data and privacy, providing recommendations and solutions to problems
Tech Stack: R Programming, Visualizations, heatmaps, logistic regression, random forest, etc.

MARKET ENTRY STRATEGY ANALYSIS FOR RETAIL BUSINESS

November 2022 - December 2022

Northeastern University

- Conducted extensive market research for target market's demographics, consumer behavior, competitive landscape, performed SWOT to assess external and internal factors impacts business entry or expansion, segmented target market analyzed competitors
- Identified potential risks and challenges associated with market, supply chain issues and defined new business model for market
- Developed Marketing strategy that outlines and promotes product, detailed operational plan and performed cost benefit analysis, created timeline, ROI for market entry, and outlined implementation plan, key insights for stakeholders and decision makers
Tech Stack: Tableau, Hadoop, AWS, Google Big Query, Power BI etc