HARSHA VARDHAN REDDY PUTTA

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ   May. 2023
Master of Science, Business Intelligence and Analytics.   **GPA: 4.0**
Honors: Provost's Masters Scholarship, Beta Gamma Sigma academic honor society.

SKILLS

Programming: Python (NumPy, Pandas, SKlearn), R(Tidyverse, data table, Shiny).
Data Visualization: Python (Seanborn, Matplotlib), R (ggplot2, Shinyapps).
Databases: SQL, NoSQL, MongoDB, MYSQL, PostgreSQL.
Analytical Tools: Hadoop, Spark, Airflow, Microsoft Excel.
Software: Tableau, PowerBI

EXPERIENCE

Graduate Teaching Assistant | Stevens Institute of Technology   Aug. 2022 – May. 2023
- Delivered a range of teaching and assessment activities towards delivery of Data Management course at graduate level for 50 students covering topics such as data modeling, database systems, data quality, and data governance
- Led weekly discussion sections for groups of 5-10 students, reviewing key course concepts, and answering questions

Graduate Research Assistant | Stevens Institute of Technology   May. 2022 – Aug. 2022
- Researched information regarding current marketing analytics topics, including consumer behavior, segmentation, and predictive modeling to support professor with academic pursuits and completed tasks on professor's request
- Facilitated launch of course on a new platform by transferring and organizing course materials with professor

Data Scientist | HCPL, Hyderabad, India   Aug. 2020 – Jul. 2021
- Performed comprehensive data analysis of specifications in construction project plans to determine optimal material, equipment, and labor requirements for each phase, to streamline project execution
- Collaborated with cross-functional teams to identify and prioritize SQL needs, enabling historical analyses and data-driven decision making, resulting in a 20% increase in project success rates
- Demonstrated expertise in SQL, Python, Tableau and Excel, utilizing SQL to extract and transform data, Excel for fundamental financial statement analysis, equipment and inventory data and Python, Tableau for visualizations

ACADEMIC PROJECTS

Data Analysis, Machine Learning | Online Shoppers Purchasing Intention| Hoboken, NJ   Jan. 2023 – Mar. 2023
- Predicted purchase intent of e-commerce website visitors using supervised learning algorithms in python
- Implemented and compared Logistic Regression, Random Forest, Support Vector Classifier, K-Nearest Neighbor, Multilayer Perceptron, and Adaptive Boosting. Found Random Forest was most effective classifier with accuracy of 77%
- Incorporated SMOTE technique to improve classifier performance and Scalability of each classifier, Random Forest classifier performed best with accuracy of 91%

Data Analysis, Machine Learning | Predicting Financial Distress | Hoboken, NJ   Oct. 2022 – Dec. 2022
- Designed and implemented a credit scoring algorithm that uses machine learning to predict an applicant's likelihood of default, increasing efficiency and accuracy of loan decisions
- Leveraged Python pandas library to extract and parse data, matplotlib library to conduct exploratory data analysis and create compelling visualizations and SKlearn machine learning libraries to develop predictive models
- Uncovered issue of data set imbalance, leading to 93% of customers not facing financial distress; rectified problem by applying SMOTE technique to balance data set
- Diagnosed classification problem at hand and deployed Random Forest Classifier achieved accuracy of 95%

Business Intelligence | Data Warehouse and BI for Coffee Chain | Hoboken, NJ   Feb. 2022 – May. 2022
- Spearheaded development of a Data Warehouse & Business Intelligence system for a coffee chain with 1 warehouse and 8 brick-and-mortar locations, resulting in increased data accuracy and efficiency
- Built an ETL pipeline using python pandas and Psycopg2 to integrated data into a data warehouse and imported data from PostgreSQL into Tableau for business intelligence, utilizing principles of Data Warehousing and Business Intelligence
- Designed Tableau dashboards for executives and sales managers, enabling real-time insights into customer behavior, new product performance, and profitable customers for daily business operations

EXTRACURRICULAR

Graduate peer Leader – Graduate Student Life | Stevens Institute of Technology   Jun. 2022
- Mentored 15 new students, providing guidance on establishing valuable connections, identifying resources
- Coordinated departmental activities, including orientation and graduation ceremonies to create welcoming and supportive environment while honing leadership and mentoring abilities