TEJASWINI PENNENI

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OBJECTIVE

Aspiring Data Analyst with a strong foundation in data science, seeking to apply analytical skills and advanced data manipulation techniques to contribute to data-driven decision-making and drive organizational success.

SUMMARY

- Results-driven Data Science graduate student with 2.9 years of hands-on experience in data analysis, SQL, and statistical modeling.
- Seeking a challenging Data Analyst role to leverage expertise in analyzing data, generating insights, and supporting data-driven decision-making.
- Leading end-to-end data initiatives for global clients, specializing in data gathering, processing, and visualization.
- Utilizing Python libraries for efficient data manipulation, developing predictive models, and optimizing database interactions through complex SQL queries.

EDUCATION

University of Maryland Baltimore County, Baltimore, MD   Expected: May 2025
Master of Science in Data Science, GPA: 4.0/4.0

Mother Theresa Institute of Engineering and Technology, India   Jun 2016 – Sep 2020
Bachelor of Engineering in Computer Science and Engineering, GPA: 3.6/4.0

CERTIFICATIONS

- Certification in Supervised Machine Learning: Regression and classification.   Dec 2023
- Certification in Advanced Learning Algorithms: Neural Networks and Decision Trees.   Jan 2024

RELEVANT COURSES

- Introduction to data Science
- Machine learning
- Data Management
- Platforms for Big Data Processing
- Python

SKILLS

Programming: Python, R
Libraries & Packages: matplotlib, pandas, NumPy, scikit-learn, SciPy, beautifulsoup
Software: Microsoft office (Word, PowerPoint, Excel)

PROJECTS

Predictive Analysis of Motor Vehicle Collision in New York City, Maryland, USA.   Mar 2024 – May 2024
- Developed a predictive model using Apache Spark and MLlib to analyze and forecast motor vehicle collisions, implementing data preprocessing, feature engineering, and model selection techniques.
- Achieved the highest overall performance with the Decision Tree Classifier, attaining an accuracy of 84%, precision of 82%, and recall of 84%.
- Utilized Python libraries (Pandas, NumPy, Scikit-learn) for data manipulation and statistical analysis, and Tableau for creating visualizations to effectively communicate findings.

Cricket Player Performance prediction, Maryland, USA   Nov 2023 – Dec 2023
- Applied machine learning techniques to historical ODI performance data, emphasizing the importance of location and opposition team in predicting future performance.
- Developed a Random Forest Classifier model to capture the complexity of non-linear relationships in the data.
- Implemented a Support Vector Classifier to handle both linear and non-linear challenges, enhancing the accuracy of performance predictions.
- Produced accurate predictions for batsmen and bowlers, contributing to a data-driven approach in understanding and anticipating player performance.

Air Flight Delays and Cancellations Analysis, Maryland, USA   Nov 2023 – Dec 2023
- Utilized ETL processes to load flight data into the database, ensuring data integrity and accessibility.
- Cleaned and preprocessed data to remove inconsistencies and prepare it for analysis.
- Conducted comprehensive analysis using Power BI, identifying key patterns and trends in flight delays and cancellations.
- Generated detailed reports and visualizations to communicate findings effectively.

WORK EXPERIENCE

University of Maryland Baltimore County, Baltimore MD: *Graduate Assistant*   Expected: Dec 2024
- Grading, advising, proctoring, and administrative duties for courses.
- Possibly serving as instructor-of-record for courses with a faculty mentoring plan.

Infosys Limited, Bengaluru, India: *Sr. Systems Engineer*   Jan 2023 – Jun 2023
- Spearheaded end-to-end data initiatives for Johnson & Johnson, focusing on data gathering, processing, SQL queries, and visualization.
- Created dynamic data visualizations using Tableau and Power BI, enhancing stakeholder understanding and decision-making.
- Developed and executed complex SQL queries, optimizing database interactions, and ensuring data accuracy.
- Improved dashboard usability by implementing interactive visualizations, resulting in a 20% increase in user engagement.

Tata Consultancy Services, Bengaluru, India: *Systems Engineer*   Nov 2020 – Jan 2023
- Collaborated with the data analytics team to streamline data processes and enhance project outcomes.
- Contributed to the integration of data analytics solutions into the GSTN project, optimizing data-driven decision-making.
- Utilized Python libraries for data analysis, improving efficiency and enabling advanced data manipulation.
- Engaged in client meetings to address queries and incorporate feedback, enhancing client satisfaction.

Glenwood Technologies, Chennai, India: *Intern*   Jan 2020 – Feb 2020
- Conducted data collection and preprocessing tasks to ensure accuracy and completeness of datasets for healthcare analysis.
- Assisted in the development of data visualizations using tools like Tableau to present healthcare insights and trends effectively.
- Performed exploratory data analysis (EDA) to identify patterns and relationships within healthcare data, aiding in decision-making processes.
- Supported the team in creating and optimizing SQL queries for data retrieval and manipulation, improving overall database performance in the healthcare domain.