Abhinav Borad

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Summary

Data-driven Data Analyst with hands-on experience in statistical modeling and comprehensive report preparation. Proficient in SQL, Python, and Excel, with a strong track record in data formatting, visualization, and trend analysis. Experienced in applying sampling techniques and statistical methods to address complex challenges and drive actionable insights. Demonstrates a keen attention to detail and the teamwork spirit essential for high-pressure environments.

Education

Stony Brook University, Long Island, NY **Aug 2023 - Present**
Master of Science, Data Science (GPA: 3.0+) *Stony Brook*

Malla Reddy Engineering College, Hyderabad, Telangana **Jul 2018 - Jun 2022**
Bachelor of Technology, Computer Science (GPA: 3.0+) *Hyderabad, India*

Experience

Stony Brook University | *Graduate Research Assistant* **Aug 2023 - Present**

- Leveraged efficient SQL queries to extract cohorts from multi-billion record datasets, reducing processing time by 30% while supporting comprehensive report preparation.
- Conducted statistical modeling using Python on datasets exceeding 1 million records, aiding in published research and enabling data-driven insights for report development.
- Collaborated with a team to refine research methodologies, improving data reliability and accuracy for detailed analysis.
- Analyzed 500,000+ records to uncover key trends and insights, guiding strategic research decisions and enhancing visual presentations of data.

3S Data Cloud | *Data Analyst* **Jul 2022 - Jul 2023**

- Streamlined data cleaning and processing workflows using SQL and Excel, ensuring consistent data quality and supporting the development of comprehensive reports.
- Enhanced data integrity by identifying errors, missing values, and inconsistencies, achieving a data accuracy increase of over 40%.
- Conducted cost analysis to drive a 10% reduction in expenses through optimized resource allocation strategies.
- Documented processes, methodologies, and analysis results, facilitating clear cross-departmental communication and visual data presentations.

Projects

Navigating New York: A Multidimensional Study of Transit Choices **Dec 2023**

- Analyzed over 10 million records, revealing a 25% rise in app-based vehicle usage and demographic travel patterns.
- Performed geographical analysis, uncovering a 30% increase in subway use in lower-income areas.
- Built regression models to forecast transit demands with 85% accuracy, aiding future urban planning efforts.

Emotion Recognition: Textual Tweets Classification **Mar 2022**

- Achieved 89% accuracy and a 91% F1 score in classifying emotions from a large volume of textual data.
- Built predictive models that cut overspending by 15%, enhancing financial control and budget planning.
- Developed a real-time web interface using Django to display emotion recognition results effectively.

Skills

- **Database**: Jupyter Notebook, RStudio, Google Cloud Platform
- **Languages**: Python, SQL, R, Java, C, HTML/CSS, JavaScript, React.js
- **Tools**: GitHub, PostgreSQL, Excel
- **OS**: Windows, Linux
- **Data Analytics**: Report Development, Statistical Methods, Data Visualization, Data Analysis

Publications

- Travelling Salesperson Problem using Soft Computing- Genetic Algorithm Techniques. *Published in IEEE ICAC3N, March 2023*
- Building Semantic Knowledge Base for Visual Perception-using Web Ontology Language. *Published in Scopus (International Journal of Intelligent Systems and Applications in Engineering), Dec 2022*
- Early-Stage Ischemic Stroke Prediction using Convolution Neural Network. *Published in IEEE ICCES, July 2022*