Abhinav Borad

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Summary

Data Analyst specializing in delivering actionable insights to support strategic decision-making. Experienced in optimizing data workflows using SQL, Excel, and Python, and adept at creating detailed reports and dashboards for senior leadership. Proven ability to streamline data processes, enhance data quality, and drive business performance through innovative analysis.

Education

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

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

Experience

Stony Brook University **Aug 2023 - Present**
Graduate Research Assistant *Stony Brook, NY*
- Developed efficient SQL queries to extract specific cohorts from datasets containing billions of records, reducing processing time by 30%.
- Conducted statistical modeling with Python on datasets exceeding 1 million records, supporting published research on health disparities.
- Enhanced data reliability by collaborating with team members to refine complex research methodologies.
- Analyzed over 500,000 records to identify key trends and insights, informing strategic research decisions.

3S Data Cloud **Jul 2022 - Jul 2023**
Data Analyst *Hyderabad, Telangana*
- Optimized data cleaning and processing workflows using SQL and Excel, ensuring consistent data quality and adherence to project standards.
- Validated data integrity by thoroughly checking for errors, missing values, and inconsistencies, increasing accuracy by over 40%.
- Performed cost analysis that led to a 10% reduction in expenses through strategic resource allocation.
- Documented detailed processes, methodologies, and analysis results to support data-driven decision-making for senior leadership.

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

- **Analytical Skills**: Data Analysis, Dashboard Creation, Data Quality Improvement
- **Programming Languages**: Python, SQL, R, Java, C, HTML/CSS, JavaScript, React.js, English Proficiency
- **Tools & Platforms**: Jupyter Notebook, RStudio, Google Cloud Platform, GitHub, PostgreSQL, Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Outlook
- **Operating Systems**: Windows, Linux

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*