Abhinav Borad

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Summary

Data-driven professional with strong SQL and Python expertise, experienced in analyzing large datasets, building data pipelines, and ensuring data accuracy. Demonstrated success in reducing query processing times by optimizing data workflows and uncovering actionable insights from complex datasets. Proven capability to collaborate with cross-functional teams to address data requirements and support strategic decision-making.

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**

- Engineered efficient SQL queries to extract cohorts from massive datasets, reducing processing time by 30% while ensuring data accuracy and consistency.
- Conducted statistical modeling using Python on datasets exceeding 1 million records, applying advanced statistical methods to support published research on health disparities.
- Enhanced data reliability by collaborating with cross-functional teams to refine research methodologies and establish robust data quality control processes.
- Analyzed over 500,000 records to uncover key trends and insights, effectively guiding strategic research decisions and communicating findings to stakeholders.

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

- Developed and maintained automated data cleaning pipelines using SQL and Excel to ensure consistent and accurate datasets across projects.
- Ensured data integrity by systematically identifying and rectifying errors, missing values, and inconsistencies, increasing overall data accuracy by over 40%.
- Performed detailed cost analysis with Python and statistical techniques, achieving a 10% reduction in expenses through optimized resource allocation strategies.
- Documented comprehensive processes and methodologies, supporting efficient data workflows and facilitating clear communication of data insights to internal and external stakeholders.

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 Expertise**: Data Analytics, Statistics, Probability, Data Engineering
- **Technical Proficiencies**: SciPy, sklearn, Hadoop, Startup Experience

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*