

Abhinav Borad

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Education

Stony Brook University , Long Island, NY <i>Master of Science in Data Science</i> , GPA: 3.0+	Aug 2023 – Present
Malla Reddy Engineering College , Hyderabad, Telangana <i>Bachelor of Technology in Computer Science</i> , GPA: 3.0+	July 2018 – June 2022

Experience

Stony Brook University , Stony Brook, NY Graduate Research Assistant	May 2024 – Present
<ul style="list-style-type: none">Engineered efficient SQL queries to extract cohorts from datasets containing billions of records, reducing processing time by 30%.Conducted statistical modeling using Python on datasets over 1 million records, aiding published research on health disparities.Improved data reliability and accuracy by collaborating with a team to refine research methodologies.Analyzed 500,000+ records to uncover key trends and insights, guiding strategic research decisions effectively.	
3S Data Cloud , Hyderabad, Telangana Data Analyst	June 2021 – July 2023
<ul style="list-style-type: none">Streamlined data cleaning and processing workflows using SQL and Excel, ensuring consistent data quality for projects.Ensured data integrity by checking for errors, missing values, and inconsistencies, thereby increasing the data accuracy by over 40%.Conducted cost analysis, achieving a 10% reduction in expenses through optimized resource allocation strategies.Maintained detailed documentation of processes, methodologies, and data analysis results.	

Projects

Navigating New York: A Multidimensional Study of Transit Choices <i>Tools: Python, Data Analysis, Visualization</i>	Dec 2023
<ul style="list-style-type: none">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 <i>Tools: Python, Django, MySQL</i>	March 2022
<ul style="list-style-type: none">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.	

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

Leadership Experience

Malla Reddy Engineering College , Hyderabad, Telangana Event Coordinator	Nov 2019 – Dec 2019
<ul style="list-style-type: none">Managed logistics for the 6th INTERNATIONAL CONFERENCE ON TRANSFORMATION IN ENGINEERING EDUCATION.Coordinated international professor engagement, ensuring smooth communication and participation in the event.Led a team of 10 students to organize workshops and seminars for over 200 attendees, ensuring event success.	

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