

PARITA BRAHMBHATT

Cary, NC, USA | (864) 788-2284 | paritabrahmbhatt1@gmail.com | [LinkedIn](#) | [GitHub](#) | [Tableau Public](#) | [Portfolio](#)

EDUCATION

Master of Science in Computer Science.

Clemson University, South Carolina, USA

Dec 2023

GPA 3.46/4.00

Bachelor of Engineering in Electronics and Communication Engineering.

Gujarat Technological University, Ahmedabad, India

May 2021

CGPA 8.87/10.00

TECHNICAL SKILLS

Programming Languages:	Python, C/C++, R, JavaScript, MATLAB, HTML, CSS.
Database Management Systems:	SQL, MYSQL, IBM DB2, Google BigQuery, AWS, MS Access.
Data Visualization Tools/Frameworks:	Tableau, Tableau Prep, ARCGIS Pro, PowerBI, Matplotlib, Seaborn, ggplot2.
Other Tools/Libraries:	TensorFlow, Keras, Scikit Learn, Pandas, Dplyr, Bootstrap, PyGame, GitHub, WordPress, Excel, VBA.
General Skills:	Data Preparation, Artificial Intelligence, DBMS, Statistical Analysis, Web Development.

PROFESSIONAL EXPERIENCE

CLEMSON UNIVERSITY, Clemson, SC, USA

Research Lab Specialist (Department of Environmental Engineering & Earth Sciences)

Jan 24 - Present

- Implemented robust data processing techniques to ensure data quality and to reduce the time for tedious data cleaning.
- Leveraged 4 years of water treatment plant data to architect deep learning models for accurate prediction of methane production.

Voluntary Research Assistant (Department of Environmental Engineering)

Nov 23 – Dec 23

- Spearheaded the development of eight interactive dashboards with over 20 charts, empowering stakeholders with insightful visualizations to comprehend the influence of independent variables on gas production.

Graduate Student Assistant (Office of Global Engagement)

Feb 22 – Dec 23

- Administered a database in SQL environment for 15K+ international students with a data accuracy of 95%.
- Led the development of an interactive web-based dashboard using Tableau Server and Python with the past 10 years of data.
- Trained and mentored three new hires for future data analysis and IT projects.
- Coordinated with IT services and performed ANOVA test with R programming, resulting in reduced queries by 85%.
- Developed an interactive dashboard using Tableau Server and Python with the past 10 years of data.
- Automated data cleaning procedure for the 2023 admission data using Python, which saved 8+ hours of the manual workload.

SIGMA MECHOTRONICS INC. LTD., Ahmedabad, India

Junior Data Scientist

May 20 – Dec 21

- Collected and cleaned a dataset of over 1,00,000 records from multiple sources, resulting in a 30% improvement in data accuracy.
- Analyzed a customer dataset with EDA and extracted key patterns and trends that increased 15% customer retention rate.
- Programmed an automation of the data cleaning process of 10K+ records with Python saving 6 hours per week in manual cleansing.
- Created comprehensive reports and presentations with Tableau dashboards that synthesized complex data analysis into actionable recommendations, resulting in a 20% improvement in decision-making processes.
- Successfully delivered and forged a new key performance indicator (KPI), resulting in improved operational efficiency.

Intern - Data Analytics

Aug 17 – April 20

- Utilized statistical methods, machine learning, and visualization tools to interpret data trends, contributing to informed decision-making processes.
- Implemented new KPIs, contributing to a more comprehensive understanding of organizational performance and improved operational efficiency. Automated monthly report tracking with VBA, leading to a reduction of 5 hours of the weekly workload.

ACADEMIC PROJECTS

Admissions Data Analysis ([Link](#)) | Remote

Mar 24

- Developed a Tableau tool to analyze admissions key performance indices such as yield rate, admissions rate, etc.
- Implemented diverse filters to enable users to interact with charts and comprehend admissions trends over past three years.

IT Cost Analysis with PowerBI ([Link](#)) | Remote

Aug 23 – Sep 23

- Built Power BI dashboards to automate the cost analysis within the IT department.
- Developed KPI, diverse budget and forecast graphs, and insightful tables for affected sectors and countries.

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ACADEMIC PROJECTS CONTINUED

Prediction of Survival Rate for Titanic ([Link](#)) | Remote

Apr 23 – May 23

- Performed feature engineering and exploratory data analysis to prepare data for modeling. Generated 8 charts to find correlations between attributes. Found 5 principal components affecting the survival rate of the passengers.
- Implemented 15+ machine learning and deep learning algorithms in Python with an accuracy rate of 82% for the predictive model.

Healthcare Data Management and Visualization | Remote

May 23 – Jun 23

- Developed a healthcare relational database using Google BigQuery and optimized the performance to handle large volumes of data. Also created star schema with PowerBI.
- Demonstrated expertise in utilizing PowerBI and MySQL to enhance decision-making and operational efficiency.

Customer Behaviour Analytics ([Link](#)) | Remote

May 23 - May 23

- Identified and segmented customers based on their purchasing behaviors, demographics, and preferences.
- Constructed interactive Tableau visualizations and an intuitive user interface that transformed the data into actionable recommendations. Provided clear and concise presentations that effectively communicated the findings with 6 charts.

Data Analysis on Forbes Billionaire List ([Link](#)) | Clemson University, USA

Apr 22 – May 22

- Built a cloud-based analytical hypothesis testing tool using Git, R programming, and Shiny app. Also hosted a website on GitHub.
- Combined 10 datasets with 70K+ rows and 20+ variables. Analyzed the distribution of wealth over the continents by writing 40+ complex R queries. Generated financial insights for Forbes' listed Billionaires due to COVID-19 pandemic using Statistical Analysis.

WORKSHOP AND ACHIEVEMENTS

- GIS Fundamentals Workshop Series - Clemson Centre for Geospatial Technologies ([Certificate](#))
- Volunteer of the Month - All India Rural Empowerment Program, Ahmedabad, India ([Recommendation Letter](#))

CERTIFICATIONS

[Introduction to HTML5](#)

[Data Science Foundations](#)

[Introduction to Big Data](#)

[Excel Skills for Business: Essentials](#)

[Fundamentals of Visualization with Tableau](#)

[Build Data Analysis tools using R and DPLYR](#)

[Introduction to Probability and Data with R](#)

[Programming Foundations with JavaScript, HTML and CSS](#)

COMMUNITY INVOLVEMENT

CLEMSON UNIVERSITY CENTER FOR STUDENT LEADER DEVELOPMENT – Greenville, SC, USA

Aug 23 – Dec 23

Feed and Seed Services Volunteer

- Volunteered for 24+ hours to feed local families in need of a healthy variety of fresh vegetables.
- Prepared 40+ fresh food boxes for families of upstate South Carolina.

ALL INDIA RURAL EMPOWERMENT PROGRAM (AIREP) – Ahmedabad, India

Aug 21 – Dec 21

Lead Volunteer

- Interacted with local government officials and authorities and government school management to identify and enroll kids and to obtain tuition materials, food packages and designated space for tutoring.
- Enrolled 20 college students and working professionals as volunteers, managed their transport, and supervised their work.

eVidyaloka TRUST – Remote

Aug 20 – Dec 20

Volunteer – Content Developer

- Designed 46 worksheets and summaries for high school students with easy-to-grasp Mathematics concepts.
- Recruited 3 college students to work as a volunteer and collaborated with volunteers to develop a website.