

SANJANA GUPTA

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ **Aug 2023 - May 2025**
MS in Data Science CGPA: 3.9/4.0
Relevant Courses: Time Series, Statistical Methods, Optimization Models, Deep Learning, Machine Learning

Ramrao Adik Institute of Technology, Mumbai, India **Aug 2019 - May 2023**
Bachelor of Engineering in Information Technology CGPA: 8.3/10
Relevant Courses: Artificial Intelligence, Python, SQL, Data Science & Business Intelligence, Data Mining

WORK EXPERIENCE

Stevens Institute of Technology, Hoboken, NJ **Jan 2025 - Present**
Graduate Student Grader - ENGR 241 Probability and Statistics for Data Science Applications

- Delivered lectures, conducted doubt solving sessions, graded assignments, projects, and exams for the course.
- Guided students in applying statistical techniques to data science problems using Python, R, Excel and PowerBI.

Stevens Institute of Technology, Hoboken, NJ **Aug 2024 - Aug 2024**
Web Support and Content Migration Assistant

- Designed web layouts using Contentful, JavaScript, HTML and CSS to provide visually engaging user experience.
- Analyzed user behavior, identifying high-impact content and enhancing site navigation to improve accessibility.


Om Enterprises, Mumbai, India **Jun 2022 - May 2023**
Data Analyst Intern

- Implemented Python-based scripts to streamline data integration across warehouses, ensuring seamless synchronization of inventory records, which increased operational efficiency and reduced manual errors by 90%.
- Leveraged Power BI to visualize insights on inventory levels, billing cycles & timelines to enhance efficiency.


D. Y. Patil University, Nerul, India **Jun 2021 - Oct 2021**
Web Development Intern

- Developed a web-based learning management system using Python, SQL and JavaScript integrating features such as coursework submission, progress tracking, discussion forums, mentoring sessions and interacting with peers.
- Integrated dashboards with Power BI, to monitor student performance trends, and tailor instructional strategies.


ACADEMIC PROJECTS

Customer Segmentation and Recommendation 

- Performed data cleaning, created customer segments using K-means to develop a recommendation system.
- Utilized Power BI to visualize customer segments and key metrics, enabling data-driven decision-making.

Equipment Predictive Analysis 

- Developed a predictive model to forecast demand for surgical equipment based on historical usage data.
- Leveraged machine learning techniques for demand prediction and optimized inventory management in hospitals.

Sentiment Analysis for Twitter Data 

- Applied data preprocessing techniques and machine learning algorithms for sentiment analysis.
- Comparative data analysis achieved 86% accuracy for Naive Bayes and 78% accuracy for Bi-LSTM algorithm.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, HTML, CSS, Javascript | **Big Data Technologies:** Hadoop, Spark
Data Visualization: Power BI, Tableau, Microsoft Excel, Jupyter Notebook | **Version Control:** Git, GitHub
Data Analytics: Pandas, NumPy, Matplotlib, Seaborn, ETL processes | **Cloud:** AWS, Azure, Google Cloud
Statistical Analysis: Probability & Statistics, Linear Algebra, Calculus, Time Series, Hypothesis Testing, Regression

LEADERSHIP AND INVOLVEMENT

Won the **Choice Awards** at **Rutgers Health Hack 2024** for Equipment Management & Predictive Analysis.
Peer Leader at Stevens Institute of Technology - Conducted mentoring sessions to support graduate students.
Publicity Chief at RAIT ACM Student Chapter - Directed the publicity team for social media marketing.