

Sravani Pati

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📍 [Clemson, SC, 29631](#)

SUMMARY

Graduate student in Computer Science with specialization in Data science at Clemson University. Currently Seeking Full-time opportunities starting from May 2024.

EDUCATION

Clemson University, Clemson, SC	Master of Science, Computer Science	CGPA: 3.77
Visvesvaraya technological University	BE in computer science	CGPA: 8.9

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java,
- **Python Packages:** NumPy, Pandas, SciPy, seaborn, Matplotlib, statsmodels, scikit-learn
- **Machine Learning Models:** Regression (linear, logistic), Naive Bayes, decision trees, random forest, AdaBoost, XGBoost
- **Web Technologies:** HTML, CSS, JavaScript, DotNet, XAMPP.
- **Database Technologies:** MySQL.
- **Data Tools:** Tableau, Excel.
- **Softwares :** ARCGIS pro, Salesforce

WORK EXPERIENCE

Data Analyst Intern - Clemson Engineering of developing Communities, Clemson, South Carolina, United States.

- Engaged in USACE Dam Sector Region Risk and Resilience Program (DSR3P) within Savannah River Watershed, providing essential data-driven insights.
- Conducting data visualization and analysis, enhancing strategic decision-making processes.
- Investigating socioeconomic factors in Anderson County, offering valuable insights into regional dynamics.
- Utilizing advanced data analysis techniques to extract actionable insights from complex datasets.

Software Engineering Intern - Aptech, Bangalore, India.

- Developed a dataset for graduate admissions prediction.
- Developed and deployed SVM, Random Forest, and Logistic Regression models for data analysis, optimizing marketing campaigns and increasing customer acquisition by 20%.
- Created a user-friendly interface for automated data analysis and informed college selection.
- Streamlined processes, improving efficiency and reducing computation time.
- Collaborated to optimize model performance and achieved high validation accuracy.
- Enhanced user satisfaction through interface improvements.

PROJECTS

Data Analytics Projects

2024

- **Classification of TikTok videos:** Used statsmodels and scikit-learn to predict whether videos presented claims or opinions to improve triaging process of videos for human review .

Failure Point Automation | Python Libraries, CNN, ARCGIS

2023

- Initiated automation of infrastructure risk analysis for disaster preparedness in low-capacity communities.
- Spearheaded machine learning integration in GIS for CEDC's automated critical infrastructure mapping project.
- Pioneered CNN and R-CNN applications in data analysis for enhanced infrastructure failure point recognition.
- Contributed to developing scalable tools for community resilience and infrastructure assessment in disaster-prone areas.

Pizza-Store | SQL, Java

2023

- Created a MySQL database for Pizzas-R-Us, employing Enhanced ER models for inventory and order management.
- Built a Java-based CRUD application for efficient database operations and data accuracy.
- Implemented business logic for discount strategies and developed SQL views for critical business insights

Migraine: Classification Based on Gene Expressions| Python Libraries

2023

- Expertise in Python libraries (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, BioPython) for gene expression analysis.
- Deployed libraries for data manipulation, statistical calculations, and visualization in gene research.
- Conducted pathway analysis, clustering, and classification for gene-level prediction and personalized medication.
- Achieved research objectives with Python libraries, driving data-driven insights and personalized healthcare solutions.

Data Breaches in Top tech Companies | HTML, JavaScript, d3.js

2022

- Showcased cutting-edge interactive visualization techniques with bubble, donut, and bar charts.
- Quantified substantial data loss caused by hacking, impact on businesses, and identified industry-leading companies affected.
- Engineered immersive user-interactive visualizations to address inquiries proactively.
- Prioritized user-centric design to optimize engagement, delight, and retention.
- Optimized visual encodings for intuitive, captivating data representation.
- Commended for concise communication of intricate information.
- Amplified information accessibility, empowering data-driven decision-making.

Adversarial Attacks Against Real-World Object Detectors | YOLO, Python, CNN

2022

- Framed a sophisticated hill-climbing algorithm for disruptive adversarial effects and enhanced classification confidence.
- Pioneered feature-interference reinforcement and layered adversarial examples (AEs) for real-world robustness.
- Introduced innovative adversarial patch with Hiding attack to deceive object detectors.
- Demonstrated resilience of AEs, evading state-of-the-art detectors like YOLO V3 and faster-RCNN.
- Manifested technical expertise in algorithm design and evaluation, driving advancements in adversarial machine learning.

Object Detection Using YOLO and PYTTX3 | YOLO, Pyttx3, OpenCV, CNN

2022

- Imposed YOLO and Python text-to-speech conversion to aid visually impaired individuals.
- Automated object detection from images or video frames.
- Employed CNN to classify objects and draw bounding boxes around them.
- Generated text output for visually impaired users using Python text-to-speech conversion.
- Improved accessibility by converting text to speech for enhanced user experience.

Database School Management | ERP software, SQL

2021

- Led the development of a project to organize and store teachers' and students' information using SQL.
- Accomplished efficient database communication and mastered data retrieval through strategic queries.
- Escalated data organization, accessibility, and decision-making processes.
- Illustrated expertise in SQL for effective data management and retrieval.

Web development | Html, CSS, Bootstrap, Java script

2021

- Engineered web pages for efficient school attendance system and test score management.
- Implemented robust login functionality for secure access of students and faculty.
- Hosted the website on XAMPP, ensuring seamless deployment and accessibility.
- Modernized attendance tracking and test score management processes with precision.
- Optimized efficiency and accuracy through innovative web-based solutions.

ACHIEVEMENTS

- Acquired notable university ranks of 6th and 8th in seventh and eighth semesters.
- Secured prestigious appreciation award for consistent top 3 performance.
- Honored with Certificate of Excellence for significant contributions to FIESTA 18 and Emerging Trends technical fests.
- Participated in transformative GIS Fundamentals workshop by Clemson Center for Geospatial Technologies.
- Earned 25 badges and 30375 points by completing 2 trails, showcasing dedication and proficiency.
- Gained Advanced Data Analytics Certificate from Google

POSITIONS OF RESPONSIBILITY

- Held a vital role as a core committee member of Sampoorina Institute of Technology and Research, a renowned national-level technical fest.
- Orchestrated captivating games and events, showcasing exceptional organizational prowess.
- Played a pivotal role in delivering memorable experiences, contributing to the fest's resounding success.