

Sravani Pati

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Skills

Languages : Python, JavaScript, R Language, HTML, CSS, SQL, No-SQL, Java, C, C++.

Libraries/Frameworks: Hugging face, Google AI Studio, Pandas, Scikit-learn, Numpy, TensorFlow, PyTorch, Matplotlib, Flask, Django.

Technologies/Tools: AWS, Azure, ETL, Tableau, Power BI, Snowflake, MS Office, Linux, Git, Agile Methodology.

DataBase & Big Data: Cosmos DB, MySQL, AWS Redshift, MongoDB, DynamoDB, Data Modeling, Hadoop, Pyspark.

Experience

Human-AI Empowerment Lab (Clemson University)

May 2024 – Present

AI Engineer/Researcher

- Developed an **AI-powered comment triage system** using large language models **GEMMA - 2B, Gemini 1.5 Pro** from **Google AI Studio** and **Hugging Face**, improving feedback classification accuracy by **25%**.
- Accelerated model training and scaling using **Clemson's Super Computer** and cloud-based infrastructure, reducing training time by **55%** through efficient resource utilization across **60 CPU's** and **8 GPU's**.
- Engineered a resilient data pipeline utilizing **Zero-shot** and **few-shot learning** with **GEMMA-2b**, achieving over **95%** f1-score in few-shot scenarios, handling large volumes of comments and reducing manual triage time by **50%**.

Clemson Engineers for Developing Communities (CEDC)

Aug 2023 – May 2024

Data Scientist and Analyst

- Collaborated with cross-functional teams to design the **Fund Navigator tool**, leveraging **Scrum methodology** and **QA testing**. Utilized **Multinomial Naive Bayes**, **NLP techniques**, and **SMOTE** to improve grant allocation strategies by **45%** and achieved **91.67%** accuracy, supporting automation for better decision-making.
- Directed analysis of disaster resilience interviews, identifying themes like community engagement and disaster preparedness, utilized **Teams** for data storage and integrated web scraping to gather grant data from government websites using **Python's BeautifulSoup** and **selenium**, increasing data pipeline throughput by **35%**.
- Supervised a team of **4**, providing training in **(Power BI, Tableau and Python)**, streamlining the project process by **80%**. Conducted **Kepner-tregoe** analysis and **A/B** testing to evaluate tools, which improved testing efficiency by **65%**.

Nice Hi-tech Centre

Aug 2021 – Jul 2022

Data Scientist

- Built and deployed **fraud detection models** on **Microsoft Azure**, utilizing **Pyspark** and leveraging **SQL servers** and **load balancers** for optimized infrastructure. Achieved **81.29%** accuracy, showcasing reliable threat detection.
- Led **feature engineering**, reducing inconsistencies by **95%** using **RandomForest**, **Decisiontree**, and **AdaBoost** algorithms. Implemented **GridSearchCV** for hyperparameter tuning, improving model performance by **20%**.
- Streamlined machine learning workflows using **CI/CD** pipelines, deploying models and reducing hosting cost by **60%**. Employed collaborative tools and integrated **data warehouses** to ensure scalable robust fraud detection.

Aptech

Jul 2019 – Oct 2019

Machine Learning Specialist

- Implemented machine learning models (**SVM, Random Forest, Logistic Regression**) on **AWS EC2** and managed data storage using **AWS S3** to predict graduation admission chances, improving prediction accuracy by **35%**.
- Examined a large dataset of **500,000** records to refine application lifecycle management, boosting user acceptance testing by **20%**. Employed **AWS Lambda** for efficient computation, reducing processing time and costs.
- Revamped the university admissions workflow by linking a **CRM** system with **Amazon API Gateway** for enhanced API handling and responsiveness, cutting shortlisting time by **70%** and ensuring reliable system integration.

Education

Clemson University

Aug 2022 - May 2024

Master of Science in Computer Science with majors in Data Science

GPA: 3.80/4

Courses: Cloud Computing, Applied Data Science, Data Visualization, Deep Learning, Statistics & DBMS.

Visvesvaraya Technological University

Aug 2017 - Aug 2021

Bachelor of Engineering in Computer Science

GPA: 3.66/4

Courses: Data Structures and Algorithms, Machine Learning, Object-oriented Programming, Software Engineering, DBMS.

Certifications

AWS Certified Solutions Architect Associate level

Oct 2024 - Oct 2027

Issued by Amazon Web Services

[View Certification](#)