Sravya Yepuri

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EDUCATION

North Carolina State University - Raleigh, United States *August 2023 - May 2025*
- *Master of Computer Science,* **CGPA: 3.78/4.00**
- Coursework: Automated Learning and Data Analysis, Database Management Concepts and Systems, Design and Analysis of Algorithms

PES University - Bengaluru, India *August 2019 - July 2023*
- *Bachelor of Technology in Computer Science and Engineering,* **CGPA: 8.91/10.00**
- Coursework: Data Analytics, Machine Intelligence, Cloud Computing, Computer Networks, OS, Big Data, Network Analysis and Mining, Compiler Design, Microprocessors, Software and Systems Performance

SKILLS

- Languages: Python, R, C, Java, MATLAB, Ruby on Rails, CSS, HTML, JavaScript, NodeJS, ExpressJS, ReactJS, ARM Programming
- Database and Operating Systems: PostgreSQL, MySQL, MongoDB, Ubuntu, Windows
- Computer Networks: Cisco Packet tracing (Wireshark), Socket Programming, TCP/IP
- Tools/Frameworks: GIT, API's, AWS, GCP, Spark, Hadoop, Docker
- Certifications: R programming, Machine Learning courses from Coursera

PROFESSIONAL EXPERIENCE

Grader, North Carolina State University, Raleigh, United States *August 2023 – December 2023*
- Collaborated with the instructor to maintain grading consistency and ensure alignment with course objectives.
- Responded to student inquiries and concerns regarding the subject in a professional and timely manner.

Cloud Developer Intern, Hewlett Packard Enterprise, Bengaluru, India *January 2023 – July 2023*
- Monitored more than 1000 microservice logs using AWS resources and analyzed OneView usage to ensure the Compute Ops Management application's health and smooth operation.
- Leveraged Grafana, Prometheus, Docker, and Kafka to implement monitoring, containerization, and message queues through dashboards, alerts, and automated testing. Implemented REST API test cases, verifying accuracy, reliability, and responsiveness to application changes.
- Achieved 1st place in a hackathon focused on automating Helm values, incorporating GIT actions.

Research and Development Intern, CSIR - Fourth Paradigm Institute, Bengaluru, India *June 2022 – August 2022*
- Applied Machine Learning algorithms, namely CNN, AlexNet, and ResNet, to detect acute myeloid leukemia (AML) and Non-Hodgkin lymphoma (NHL).
- Disseminated and published a scholarly paper named "Classification of Blood Cell Data using the Deep Learning Approach" based on this internship at IITCEE Conference, BNMIT, January 2023. (DOI: 10.1109/IITCEE57236.2023.10090986)

Research and Development Intern, CSIR – National Aerospace Laboratories, Bengaluru, India *January 2022 – February 2022*
- Developed algorithms for fatigue detection by analyzing eyelid blinking, mouth yawning, and head-bending rates.
- Established correlations with PERCLOS, MOR, and HBR limits to ensure accurate and reliable fatigue assessment.

PROJECTS

StoryTube: Generating 2D Animation for a Short Story
- Developed a machine learning model to extract the information from the story text, (creating it into a screenplay) and apply visualization techniques to create captivating animations, enhancing the narrative appeal for a more immersive storytelling experience.
- Published at 3rd ICCIKE 2023, at Amity University, Dubai. (DOI: 10.1109/ICCIKE58312.2023.10131811)
- Technologies used: Python, NetworkX, Stanford Language models, Allennlp models, CARDINAL

Facial Emotion Recognition
- Employed CNN models and Python libraries for emotion identification in images. Executed comprehensive analysis and integration based on the fer2013 dataset, contributing to the development of a sophisticated facial recognition system.
- Technologies used: Python, Keras, OpenCV, NumPy, Pandas

Automated Transcription of Middle English Manuscripts
- Performed clustering for word images, predicting word length and letters using regression and ANN, DBScan, and established a baseline with Transkribus OCR. It compensates for imperfect bounding boxes through manual data creation.
- Technologies used: Python, OCR, Tesseract, ANN, DBScan, Transkribus, XML

Spam Classification with Spark MLLib
- Conducted data streaming, preprocessing, and model training with Naïve Bayes, SGD Classifier, and MiniBatch KMeans.
- Employed LabelEncoder and Hashing Vectorizer for efficient data handling and analysis.
- Evaluated models with accuracy, precision, recall, and confusion matrix metrics using scikit-learn.
- Technologies used: Pyspark, sklearn, ML models, socket programming

AWARDS / INTERESTS / MISCELLANEOUS

- IEEE Student Member
- Scholarship awarded for merit GPA in university
- Volunteer for hygiene program at an orphanage and participated in school, college, and Telugu Association events at NAL.
- **Hobbies**: Sprinting, Playing Lawn Tennis and Badminton, Painting, Listening to music. Love to read Dan Brown and J.K. Rowling.