JAHNAVI PANCHAVATI

Raleigh, NC (Open to relocate)

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EDUCATION

North Carolina State University, Raleigh, NC — Expected May 2025
Master of Computer Science — *GPA: 3.77/4.0*
Coursework: Design and Analysis of Algorithms, Automated Learning and Data Analysis, Cloud Computing Technology, Neural Networks, Software Engineering, Foundations of Data Science

PES University, Bengaluru, India — Aug 2017 - May 2021
Bachelor of Technology in Electronics and Communication Engineering — *GPA: 8.72 / 10.0*
Minors in Computer Science and Engineering

TECHNICAL SKILLS

- Programming/Scripting Languages : Python, Java, C, HTML, CSS, JavaScript, SQL, R
- Frameworks and Libraries : Flask, Angular, D3.js, TensorFlow, Scikit-Learn, Bootstrap, ASP.NET
- Databases and Tools : MongoDB, Git/ GitHub, Jupyter Notebook, Docker, VS Code
- Machine Learning, Deep Learning, Computer Vision, Object Oriented Programming

WORK EXPERIENCE

Full Stack Engineering Analyst — Jun 2021 - Jul 2023
Accenture Solutions Pvt Ltd — Bengaluru, India

- Developed and executed the password reset functionality using **Angular** and **ASP.NET core web API**. Ensured security and compliance by following best practices for password handling and encryption.
- Developed interactive dashboards with Angular and **D3.js** frameworks, integrating dynamic charts to display key metrics. Improved user engagement by **25% through effective visualizations**. Enhanced application responsiveness, **reducing loading times by 40%** for a better user experience.
- Developed and optimized APIs utilizing the ASP.NET Core framework, leading to a **50% increase** in overall application performance and a **20% decrease** in server response times.
- Enhanced user experience by redesigning and expanding the application's UI, introducing new intuitive pages to streamline navigation and usability.

Data Science Intern — Jan 2021 - Jun 2021
Pivotchain Solutions — Pune, India

- Designed and implemented an end-to-end application utilizing a **CNN** model to accurately determine vehicle colors from input images. Achieved an accuracy of **91.87%** and successfully deployed the system on the cloud.
- Contributed to the generation of training datasets for deep learning models by meticulously annotating image datasets, resulting in a substantial boost in model performance.

PROJECTS

Web application - Crop Recommendation Dashboard

- Created a web application to recommend crops to the user based on the weather conditions of the selected location and other environmental factors using **Flask framework**.
- Incorporated the **OpenAI API** into the application to enable a chatbot capable of responding to user inquiries regarding crop life cycles.

Computer Vision - NLP - Caption generation for Images

- Developed a caption generation system for images utilizing **encoder-decoder** architecture.
- Leveraged deep learning techniques to train the model on large image-caption datasets and implemented **attention mechanisms** using tensorflow to enhance caption generation accuracy and coherence.

Machine learning - Multimodal Data Representation and Information Fusion Algorithm

- Created a statistical model employing copula theory to extract and combine **multi-modal** features, accounting for both linear and non-linear dependencies.
- Conducted training and testing procedures for a classification challenge utilizing **machine learning models**, achieving F1-scores of **98.50** and **98.649** for two distinct datasets.

PUBLICATIONS

- *"Dependency-Based Classification With Multimodal Data Using Regular Vine Copulas," 2021 IEEE 18th India Council International Conference (INDICON), Guwahati, India, 2021* (Link)