Rohith Pamidmarri

+91 9390608682 rohithpamidimarri2@gmail.com Rohith P Rohith

About Me

•A highly motivated and self-driven individual with a strong passion for computer science, Machine Learning, Deep learning, NLP motivated to apply these skills in all endeavors.

Interests: Algorithms, Machine Learning, Deep Learning, NLP

Education

•Indian Institute of Information Technology Chennai *Aug. 2021 – May 2025*

Bachelor's Computer Science, currently pursuing Chennai, India

– **CGPA: 9.23**:

•Narayana Junior College *Aug. 2019 – May 2021*

Science MPC Nellore, AP, India

– **97.1%**:

Experience

•Research Intern *Dec 2023 - Jan 2024*

Research under Dr. Umarani Jayaraman, Assistant Professor, IIITDM Kancheepuram **Repository**

– Developed a Multilayer Neural Network for Multiclass Classificaton from scratch using Python without any tensorflow libraries
– Gained a solid comprehension of how the feedforward and backpropagation mechanisms are implemented within TensorFlow libraries.
– Used Gradient descent technique for Back Propagation in layers parameters updation with *Sigmoid,ReLu* activation functions in hidden layers
– Model achieved 90% accuracy in classifying handwritten digits using the MNIST dataset
– Technologies Used: Python . Machine Learning . Deep Learning .Mathematical Modelling

Projects

•Saferide: Advanced Helmet and Number Plate Detection for Traffic Safety *Jan 2024 - Feb 2024*

Project under Dr. Preeth R, Assistant Professor, IIITDM Kancheepuram **Project Repository**

– Implemented a multi-stage approach where YOLOv8 first detects bike riders in the scene, followed by a subsequent YOLOv8 pass to determine if the rider is wearing a helmet or not..
– Integrated a Convolutional Neural Network (CNN) to extract number plate details from images where riders are identified without helmets..
– Designed and implemented data preprocessing pipelines to ensure optimal performance of the YOLOv8 and CNN models, including data augmentation and resizing..
– Developed an efficient database system to store information about riders detected without helmets, including timestamps and junction locations..

•Air-Canvas OpenCV *Dec 2023 - Jan 2024*

Project under Dr. Ram Prasad Pady, Assistant Professor, IIITDM Kancheepuram **Project Repository**

– Designed and implemented an interactive air canvas system using OpenCV, enabling users to draw and erase in real-time using hand gestures.
– Utilized computer vision techniques to track hand movements and recognize gestures for drawing and erasing functionalities.
– Developed an intuitive user interface with multiple color options for drawing and a gesture-based erase function

•Email spam/ham-detection using BERT *Dec 2023*

Self-guided Project **Project Repository**

– Developed a BERT-based natural language processing model using TensorFlow and Hub, proficiently classifying emails as spam or non-spam with a focus on intricate language patterns.
– Implemented strategic downsampling to address class imbalance, significantly improving the model's ability to discern nuanced patterns and enhancing overall performance.
– Designed a functional TensorFlow model, combining BERT layers for text processing and neural network layers for classification...

•Movie-Verse *Feb 2023 - April 2023*

Project under Dr. Jagadeesh Kakarla, Assistant Professor, IIITDM Kancheepuram **Project Repository**

– Developed a feature-rich movie review system using HTML, CSS, JavaScript, jQuery, and PHP, showcasing exceptional front-end design skills and dynamic content generation.
– Implemented user privacy measures through a secure login page, while providing exclusive editing capabilities to agents for maintaining data integrity.
– Leveraged MySQL databases for efficient management of movie data, including ratings, reviews, and summaries, honing expertise in web development and database handling

•Banking System *Sep 2022 - Nov 2022*

Project under Dr. Masilamani V, Associate professor & HOD CSE Department, IIITDM Kancheepuram **Project Repository**

– Developed a C++ banking system enabling users to open savings and checking accounts, perform transactions, and manage interest rates and fees
– Utilized object-oriented programming and inheritance for code reusability and to create a class hierarchy for savings and checking accounts..
– Implemented robust input validation and error handling for a smooth user experience and secure operations.

For more details on my project works kindly visit my GitHub profile: https://github.com/Rohith-pamidimarri

Skills

- **Subjects**: Computer Vision and Image Processing,LLM's, Data Science, Machine Learning Algorithms, Deep Learning, Data Structures, Data Pre-processing , Data Analysis ,Model training
- **Programming Language**: Python, C, C++, R,HTML, CSS, JS, PHP, MASM
- **Frameworks**: OpenCV,Tensorflow, Bootstrap
- **Databases**: PHPMyAdmin, MongoDB
- **Tools**: Git, Visual Studio Code, Google Cloud Platform, Jupyter Notebook, Anaconda, Microsoft SQL Server
- **Soft skills**: Critical Problem Solving, Systems Thinking, Teamwork, Leadership.

Positions of Responsibility

•Placement Cell Coordinator, Student Affairs Council, IIITDM Kancheepuram *Jun 2023 - Present*

•Class Representative, Computer Science Department, IIITDM Kancheepuram *Jul 2023 - Nov 2023*

•Samgatha Sponsorship Volunteer,Students Cultural Affairs, IIITDM Kancheepuram *Jul 2023 - Nov 2023*

Licences & Certifications

•Natural Language Processing Specialization,NLP - Code Basics *2023*

•Machine Learning Specialization, Stanford Univeristy - Coursera *2023*

•Python for Data Science and Machine Learning Bootcamp,Pierian Data - Udemy *2023*

•The Complete Web Development Bootcampp,Angela Yu - Udemy *2023*

•Joy of Computing Python, IIT Madras - NPTEL *2022*

•Introduction to Artificial Intelligence with Python , Harvard Univerisity - EdX *2022*

•The Joy of Computing using Python, IIT Madras - NPTEL *2020*