

SRINIVAS MANDA

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Education

International Institute of Information Technology (IIITB)

Nov. 2020 – July 2025

5 Year Integrated MTech in Computer Science Engineering (5 semesters out of 10)

CGPA: 3.47/4

Specialisations

Artificial Intelligence and Machine Learning (AIML)

Experience

IIIT Bangalore

Aug 2022 – Dec 2022

Summer Intern

Bangalore, Karnataka

- Worked under Prof. Muralidhara V N to study Multi-Agent Path finding algorithms and made attempts to improve upon it.
- Discussed potential improvements that can be made to the heuristics and conflict resolution methods and prioritization of conflicts. Didn't implement these advancements due to lack of resources and time.

IIIT Bangalore

Jan 2022 – Ongoing

Project Elective | ReactJS, TypeScript

Bangalore, Karnataka

- Worked under Prof. Shrisha Rao to build a Wordle and Crossword Combination game where each across and down of a crossword is a wordle in a team of 2.

Projects

NLP Project on Troll Question Detection | Python, Sklearn, NumPy, Pandas, NLTK

May 2022 - Sept 2022

- Worked on a NLP project to detect troll questions from a Quora Dataset without using neural networks as a constraint as part of the Machine Learning course in a team of 2.
- Removed stopwords, capitalization, and other formatting elements from the data, as well as tokenized, stemmed, and lemmetized the words in the dataset. For vectorization, TF-IDF and Bag of Words were used. For the best outcomes, multiple models, including Naive Bayes, Logistic Regression, Decision Trees, Support Vector Classifier, Stochastic SVC, and Boosting algorithms, were tested.

Pothole Detection and Depth Estimation | python, Agiosoft Metashape, tensorflow, keras

Jan 2022 - Feb 2022

- Used Faster-RCNN for pothole segmentation and used the Agisoft Metashape API for depth estimation to determine the severity of a pothole in a team of 6.
- Implemented YoloV5 Instance Segmentation and YoloV7 Pothole detection
- Selected in the Top 3 teams (Results yet to be announced) out of 15,000 global participating teams in Smartathon 2023 conducted by SDAIA for smart city planning.

Banking Management System | Operating Systems, C, Linux

March 2022 - May 2022

- Designed a sample Banking Management System using basic concepts of Operating Systems which is user-friendly and multi-functional.
- Implemented Socket Programming: server-side maintains the database and services multiple clients concurrently. Client-side connects to the server and access their specific account details.
- Various concepts such as file locking, process management, multithreading and inter-process communication are used.

Technical Skills

Languages: Python, Java, C, C++, ReactJS, Verilog

Libraries and Frameworks: Pandas, Numpy, Scipy, Sklearn, Pytorch, Tensorflow, Matplotlib, HuggingFace

Tools: VS Code, Git, Github, Latex, Google Colab, Kaggle

Relevant Coursework

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|------------------------|---------------------|------------------------|------------------------------|
| • Machine Learning | • Database Systems | • Discrete Mathematics | • Probability and Statistics |
| • Mathematics for ML | • NoSQL | • Computer Networks | |
| • Data Structures(DSA) | • Operating Systems | • Linear Algebra | |

Leadership / Extracurricular

Anubhava - IIITB Carrer Blog

March 2022 –

Core Member

IIIT Bangalore

- Interviewed and created blogposts containing the details of the internship and placement experiences of alumni's at various companies.