Sri Harsha

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EDUCATION

M.Tech, Computer Science and Engineering	**CGPA : 8.72**
Indian Institute of Technology, Kharagpur	Aug'22 - May'24
B.Tech, Electronics and Communications Engineering	**CGPA : 7.98**
VelTech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	Aug'14 - May'18

TECHNICAL SKILLS

Core Competencies	Data Structures and Algorithms, Operating Systems, Artificial Intelligence, Machine Learning, Natural Language Processing, Distributed Systems.
Languages	C, C++, Python
Development & Frameworks	MultiThreading, OOPs, TensorFlow, PyTorch, Numpy, Pandas
Developer Tools	Git, GitHub, Latex, Google Colab

PROJECTS

Linux Kernel Module   Oct'22

| Kernel Programming | Linux | C

- Configured and Compiled Linux source code and installed Lodable Kernel Modules.
- Developed an LKM for managing process specific priority queues that can be accessed via proc file system.
- Enhanced the module by adding ioctl system calls for secure interaction from user space.

Chat Application with Abusive Text Detection   May'23

| Socket Programming | Machine Learning | C | Python

- Designed a CLI based Asynchronous multi-client chat application using select call with various features including private messaging, admin controlled group creation, chats and broadcast messaging.
- Used BERT model to detect abusive messages and remove repeated offenders from messaging further.

Distributed Logging System   May'23

| MultiThreading | Raft | Python

- Collaborated in designing a distributed logging system for capturing log messages from multiple applications and services across different topics.
- Integrated concepts in Distributed Systems such as Leader Election, Write Ahead Logging, Health Check and updates to Database to ensure reliability.

Rice Crop Yield Prediction   Apr'24

| Deep Learning | PyTorch | Python

- Gathered rice yield data and meteorological data of West Bengal over last 20 years from IMD gridded data.
- Developed predictive models using various Deep Learning architectures including LSTMs, TCNs and Transformers to predict of the yield with RMSE of 0.0135 and R^2 score of 0.9996 enhancing reliability of forecast for farmers.

WORK EXPERIENCE

Project Engineer(Wipro Limited, Bengaluru)   Jun'18 - Jul'21

- Worked as Project Engineer at CISCO ODC, Wipro handling the responsibilities of L2/L3 protocols.
- Collaborated across teams and as an individual contributing positively to overall project.