

MAYANK TADALA

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EXPERIENCE

Application Developer

Jan 2025 – April 2025 (Expected)

Perceptive Analytics

- Developing a Telugu Input Mobile Application with STT and OCR
- Project being done as part of requirements for Design and Analysis of Software Systems course at IIIT-H

PROJECTS

Custom Linux Shell

GitHub

- Linux shell, written in C. Support for process management, piping/redirection and built-in as well as system commands
- Enabled user-defined aliases for enhanced customization.

ReinforceEigen

GitHub

- Finds eigenvalues and eigenvectors of given matrix using RL
- Developed a Reinforcement Learning algorithm with Proximal Policy Optimization (PPO) for solving eigenvalue problems
- Uses a deep neural network architecture to effectively model the policy and value functions

Machine Learning Techniques Implementations

GitHub

- Implements Linear Regression and Regularization with Gradient Descent for Predicting Food Delivery Times
- Decision Trees using Gini Inequality and compares accuracy with SciKit's Decision Tree for predicting transaction frauds
- Implements SLIC with K means and does Video segmentation

Networking File System

GitHub

- This project implements a basic Network File System (NFS) using a client-server architecture with a Naming Server, Storage Servers, and Clients. The key components work together to manage file storage and ensure that clients can access and modify files across multiple storage servers
- The system facilitates file operations such as reading, writing, copying, deleting, and streaming audio files.

Diet Manager Cli

GitHub

- An command line tool to keep track of day to day consumption.
- Written in Java with proper OOP design along with proper documentation and uml diagrams

BuySell-web

GitHub

- A website built using MERN stack for IIIT-H students to trade goods.
- Allows verified selling and buying of items via an OTP system.
- Uses secure authorization via JWT tokens

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, SQL, Bash
Frameworks: Flask, Django, React, Node.js, TensorFlow
Libraries: Pandas, NumPy, OpenCV, Matplotlib ,Py-

Torch ,D3.js
Tools: Git, VSCode, Linux, LaTeX

RELEVANT COURSES

Programming: Computer Programming, DSA, Data Applications

rithm Analysis and Design.

Mathematics: Linear Algebra, Probability and Statistics, Discrete Mathematics, Numerical Algorithms, Algo-

System Design: Operating Systems, Computer Systems Organization.

Networking: Computer Networks, Introduction to IoT.

EDUCATION

International Institute of Information Technology Hyderabad

B.Tech in Computer Science and Engineering and MS by Research

Vikas the Concept School

Class XII CBSE; 84%

Hyderabad, India

Expected: 2028

Hyderabad, India

2022