Lokesh Sharma

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Technical Skills ——

Programming TechStack

Programming Languages: C, C++, Python, Racket

Web Dev: HTML-CSS,JS, React

Operating Systems: Linux, Windows.

Other Skills: Version control (git), GitHub, Problem-Solving, Critical Thinking.

Familiar Technologies: Boot-strapping, Bash-Scripting,C-sharp, Java, pytorch, CI/CD, AZURE, Blob Storage, Socket Programming, SQL, OOPS, HLD, System Design, CSS, Design Pattern, SDLC, API, Node-Js, CDN, TCP/IP.

Relevant Course Work :

- Data Structures and Algorithms
- Internals of Application Server
- Operating Systems
- Database Management System
- Advanced Computer Networks
- Statistical Methods in AI
- Software Systems and Development
- Advance Compiler Design(Racket prog)

Education ——

MTech CSE (CGPA: 7.6)
IIIT - HYDERABAD
2022-24

BTech CSE (CGPA: 7.3)
BTKIT Government Engineering College, Dwarahat
2015-19 | Uttarakhand

Hobbies ——

Cycling, Trekking, Yoga

Projects

Feb 2023 – Apr 2023

Distributed IOT Based App Development Platform

- Collaborated on a platform project for deploying, scaling, and monitoring IoT-based applications, utilizing oneM2M for efficient and seamless data collection in IoT environments.
- Implemented robust monitoring services and fault-tolerance mechanisms for uninterrupted operation.
- Developed a live tracker of subsystems using React, fetching real-time data from MongoDB.
- Technologies: Python, Kafka, MongoDB, Azure App Services

Oct 2022 – Nov 2022

Peer-to-Peer Multiclient File Transfer System

- Developed a robust file-sharing system where users can share and download files within the groups they belong to.
- Built tracker and client modules with fault tolerance incorporated within the tracker.
- In addition to reliability, provided an efficient solution, namely, in terms of file download rate
- Techniques harnessed: Socket Programming, Multithreading, Modular Programming, Extensive use of System Calls

Sep 2022 – Oct 2022

Terminal based file explorer

- Created a feature-rich terminal-based file explorer with Normal Mode for directory navigation and Command Mode for executing file and directory operations.
- Implemented stack-based navigation history, stack/queue data structures for efficient file exploration and command execution.
- Utilized an LRU cache for caching recently explored files and dirs.
- Technologies : Unix ncurses Library, System calls.

Sep 2022 – Nov 2022

Research Paper Recommender System

- Collaborated on implementing a MERN Stack UI, Transformers(NLP), Elastic Search for precise recommendation system.
- Contributed to API integration, designed a user-friendly React page for paper submission and enhanced user experience through efficient result retrieval and presentation.

Mar 2023 – Apr 2023

Sentiment analysis of stock prediction

- Implemented an innovative approach to sentiment analysis for stock prediction, seamlessly integrating with ML techniques.
- Demonstrated the effectiveness of the innovative approach, achieved a 10% increase in accuracy compared to previous.
- Models and Methodology: Logistic Regression, Random Forest, SVM, Neural Networks, Stopword Removal, Tokenization, TF-IDF.

Research

Sep 2023 – Present

Climate Change analysis tool for Himalayan belt   LINK-
https://iiithydclimatechangetrend.azurewebsites.net/

Independent Study: Conducted data analysis, clipping, and interpolation on temperature and precipitation data spanning 60-70 years for new geospatial timberline points using the Aphrodite dataset and Indian Meteorological Department dataset.

- Developed and deployed a user-friendly Streamlit app for visualizing and analyzing climate data in the Himalayan region of India.
- Achieved recognition in the Cloudera and AMD hackathon on HackerEarth, securing a place in the top 32 peers out of 2000.
- Technologies : Python libraries, Interpolation, MATLAB, Streamlit, Azure webservices(CI CD integration with github actions),GIS.