

# Lokesh Sharma

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## EDUCATION

### IIIT - HYDERABAD

M. Tech - Computer Science and Engineering (CGPA: 7.6)

Hyderabad, Telangana, India

2022 - 2024

### BTKIT Government Engineering College

B. Tech (CGPA: 7.3)

Dwarahat, Uttarakhand, India

2015 - 2019

## PROJECTS

### Distributed IOT Based App Development Platform

Feb 2023 - Apr 2023

Technologies: Python, Kafka, MongoDB, Azure App Services

- 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 microservice and fault-tolerance mechanisms for uninterrupted operation.
- Developed a live tracker of subsystems using React, fetching realtime data from MongoDB.

### Peer-to-Peer Multi-Client File Transfer System

Oct 2022 - Nov 2022

Technologies: C++, Socket Programming, Multithreading, Modular Programming

- Created 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 within the tracker and an efficient download solution.

### Terminal Based File Explorer

Sep 2022 - Oct 2022

Technologies : C, C++, Unix ncurses Library, System calls

- 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, queue data structures, and LRU cache for efficiency.

### Sentiment Analysis Of Stock Prediction

Mar 2023 - Apr 2023

Models, Methodology: Logistic Regression, Random Forest, SVM, Neural Networks, TF-IDF

- Implemented an innovative sentiment analysis approach for stock prediction, integrating ML techniques.
- Demonstrated the effectiveness of the innovative approach, achieved a 10% increase in accuracy.

## RESEARCH

### Climate Change Data Analysis Tool for Himalayan Belt (Python Tool)

Sep 2023-Feb 2023

<https://clouderahackiiith.azurewebsites.net/>

- **Independent Study:** Conducted analysis, clipping, and interpolation on 60-70 years of temperature and precipitation data to identify new geospatial timberline points using the Aphrodite and IMD datasets.
- Developed and successfully deployed a user-friendly Streamlit application to visualize and meticulously analyze extensive climate data encompassing the diverse Himalayan region states of India.
- Achieved recognition in the **Cloudera and AMD Hackathon on HackerEarth**, securing a place in the top 22 peers out of 2000. Utilized statistical and trend analysis methods to identify critical timberline ranges. [\[LINK\]](#)
- Technologies: Python, Interpolation, Streamlit, Azure webservices(CI CD integration with github actions),GIS.

## TECHNICAL SKILLS

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

**Web Dev:** HTML, CSS, JS, React, NodeJS

**Familiar Technologies:** Bash-Scripting, Pytorch, CI/CD, AZURE Blob Storage, Socket Programming, SQL, OOPS, System Design, Design Patterns, SDLC, CDN, TCP/IP, GitHub

**Relevant Course Work:** Data Structures and Algorithms, Computer Architecture, Digital Logic and Design, Internals of Application Server, Operating Systems, Database Management System, Computer Networks, Statistical Methods in AI, Software Systems and Development, Natural Language Processing

## ONGOING PROJECT

- **Compiler Design :** Currently developing a compiler design in the Racket programming language, implementing various phases of the compiler.