Himanshu Sahu

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Education

National Institute of Technology Srinagar — Srinagar, India
Bachelor of Technology in Information Technology | CGPA : 7.4/10 — *Aug 2019 – June 2023*

Coursework: Data Structures, Algorithms, Operating Systems, Database Management Systems

Projects

YouTube | *React, Node.js, Axiom ,YouTube API v3* | GitHub | Live | Oct 2022 - Oct 2022

- Developed a YouTube clone using **React** and the **YouTube API v3** from **RapidAPI** and Implemented all core YouTube features, including video browsing, search and **playback**
- Built a user-friendly interface that is **responsive** and **Deployed** the application to **Render hosting** platform

Load Balancer | *Python, Flask, Multiprocessing* | GitHub | Demo | Live | Aug 2023 - Aug 2023

- Developed a load balancer project using **Python** and **Flask**, effectively **distributing** incoming client **requests** to different backend **servers** using **round-robin** algorithm
- Utilized **multithreading & multiprocessing** within the load balancer to create a software-based **multi-server architecture**
- **reduced** the **load on a single server by 90%** for a 10-server cluster, resulting in improved performance

Blog Website | *CSS, Node.js, MongoDB Atlas* | GitHub | Live | Jun 2022 - Jun 2022

- Built a blog website using modern server-side **JavaScript** stack consisting of **Node.js**, Express.js, and EJS
- Ensured data availability and security by using **MongoDB Atlas** as the **cloud-based database** service
- Implemented basic **features** such as **posting** and reading blog posts, displaying the most **recent blog posts** on the **homepage**, and providing a **separate page** for each **blog post**

Mental Health Monitor | *Python, Flask, TensorFlow* | GitHub | Demo | Jan 2023 - Jun 2023

- Developed a Python **Flask-based** system that combines **Convolutional Neural Network** (CNN) and **OpenCV** to **detect signs of depression** with an **accuracy of 89%**
- Utilized **emotion recognition** and a **series of questions** to assess users' mental health status, **providing valuable insights** and potential **early intervention**

Technical Skills

Languages: C, C++, Python, JavaScript, SQL, HTML/CSS
Frameworks/Databases: React, Node.js, MongoDB, Express.js, Flask, Django, RESTful APIs, MySQL
Tools: Git, GitHub, VS Code, PostMan

Achievements

- **ranked 83 globally** in CodeChef Starters 88 **among 18,000+ participants**
- Achieved a 3-star **rating**(Max **1657**) on **codechef**
- **Solved 800+ coding problems** on various platforms such as LeetCode, CodeChef, and GeeksForGeeks

Profile Links

- Codechef
- Leetcode
- GeeksforGeeks
- CodeStudios
- CSES

Cerifications

- Problem Solving (Intermediate) from HackerRank | Certificate
- SQL (Intermediate) from HackerRank | Certificate