Education

Shri Shankaracharya Technical Campus, Bhilai

Bachelor of Technology in Information Technology

CGPA 8.05

Relevant Coursework

• Data Structures

• Artificial Intelligence

- Algorithms Analysis
- Operating System
- Mathematics for CSE

August 2021 - June 2025

- Database Management
- Computer Network

• OOPs

Experience

Languify AI

July 2024 – September 2024

Software Engineer Intern Remote

- Contributed to a live project in language modeling, implementing advanced techniques, and contributing to a 10% reduction in language processing time improving ASR system efficiency.
- Led the development of an innovative Automatic Speech Recognition (ASR) system, achieving significant **improvement** in speech-to-text accuracy, enhancing the platform's performance.
- Utilized TensorFlow and PyTorch for model training and evaluation, ensuring robustness in various acoustic environments and achieving a 15% reduction in error rates.
- Created scripts to preprocess audio data and aggregate transcriptions, increasing data processing efficiency by 1.5x.

Projects

DDOS Attack Detection and Mitigation using ML | Python, Mininet, Ryu Controller, Linux O GitHub April 2024

- Implemented Random Forest classifier ML algorithm to classify attacks and legitimate traffic with 97% accuracy and detected DDoS attacks within 2 seconds using machine learning. Reducing network downtime.
- Configured the network and wrote custom topology bash and **python scripts** to enable communication between hosts.
- Used Debian OS to run program on Linux environment for testing the system in SDN (Software Defined Network).

Live Docs | Next.js, TypeScript, Tailwind CSS, Node.js, Liveblocks, Clerk-Auth ☑ Live - ○ GitHub March 2023

- Engineered a real-time collaborative document editing platform. Styled the UI with Tailwind CSS and ShadCN, enhancing user productivity by 30% with instant updates and low-latency synchronization.
- Employed Lexical Editor by Meta for rich text editing capabilities, achieving a 50% reduction in update delays.
- Deployed Node. is as the backend and integrated Clerk-Auth for secure real-time authentication, resulting improvements in document loading and saves time.

Cognitive Document LLM Aggregator | Python, LangChain, Gemini Pro, Streamlit OGitHub December 2023

- Designed an interactive document aggregation platform for improving data retrieval efficiency by 2x.
- Integrated Gemini Pro and Pinecone for advanced information retrieval and high-performance vector search, resulting in a notably reduction in query response time and a 40% increase in document analysis accuracy.
- Leveraged LangChain to streamline the natural language processing pipeline, increasing processing speed by 25%.

Other Noteworthy Projects- ZED Type Z Live GitHub | Share Bits Wirelessly Z Live GitHub 2022 Technical Skills

Languages: Proficient: C/C++, Python, SQL, HTML/CSS, JavaScript — Familiar: JAVA, Bash/shell scripting Utilities: VS Code, Unix/Linux, Vim, Github, WordPress, Docker, Sublime Text, Postman, Yarn, AWS Technologies/Frameworks: ReactJS, ExpressJS, NodeJS, MongoDB, Firebase, Django, Selenium, Git

Achievements

- ACM ICPC Asia West Regionalist 2023 (Rank 201 out of 5000+ teams)
- CodeChef **3 Star** Max. Rating [1645]
- GeekForGeeks Institute Rank 1
- AIR 91 | Global rank 101/32181 in Starters 129
- Codeforces pupil Max. Rating [1215]
- HackerRank 6 star in problem solving
- Qualified **Meta HackerCup** Round 2 out of 21k+
- 1000+ problems solved on various coding platforms [<u>Leetcode</u>, <u>CodeChef</u>, <u>Codeforces</u>, <u>GFG</u>, <u>HackerRank</u>]

Certifications

- AWS Cloud Solutions Architect Specialization
- Google Cybersecurity Professional Certificate
- Google IT Automation with Python Professional Certificate