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#### Education

## Shri Shankaracharya Technical Campus

Bachelor of Technology in Information Technology

August 2021 - July 2025

CGPA 8.05

#### Relevant Coursework

• Data Structures

• Artificial Intelligence

- Algorithms Analysis
- Database Management
- Operating System • Computer Network
- Mathematics for CSE
- Intro to ML

## Experience

Languify AI June 2024 – July 2024

Software Engineer Intern

Remote

- Contributed to a live project in language modeling, implementing cutting-edge techniques, and contributing to a 10% reduction in language processing time improving ASR system efficiency by 20%.
- Led the development of an innovative Automatic Speech Recognition (ASR) system, achieving a 20% 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.
- Developed scripts to preprocess audio data and aggregate transcriptions, increasing data processing efficiency by 40%.

## **Projects**

DDOS Attack Detection and Mitigation using ML | Python, Mininet, Ryu Controller, Linux - C 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 by 80%.
- Set up the network and wrote custom topology bash and **python scripts** to enable communication between hosts.
- Provisioned a Debian virtual machine to run on **Linux Environment** so that the program is able to run everyday automatically.

Live Docs | React.js, Next.js, TypeScript, Tailwind CSS, Node.js, Liveblocks-Auth, ShadCN - \*\*Q GitHub\*\* December 2023

- Engineered a real-time collaborative document editing platform. Styled the UI with Tailwind CSS and ShadCN, providing a responsive design, enhancing user **productivity by 40%** with instant updates and low-latency synchronization.
- Employed Lexical Editor for rich text editing capabilities, achieving a 30% reduction in update delays.
- Deployed Node. is as the backend and integrated Liveblocks for secure real-time authentication, resulting in 25% **improvement** in document load and save times.

Cognitive Document LLM Aggregator | Python, LangChain, Gemini Pro, Pinecone - G GitHub July 2023

- Designed an interactive document aggregation platform for improving data retrieval efficiency by 35%.
- Integrated Gemini Pro and Pinecone for advanced information retrieval and high-performance vector search, resulting in a 30% 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%.

#### Technical Skills

Languages: Proficient: C++, Python, HTML/CSS, JavaScript, Bash/shell scripting — Familiar: C, JAVA, SQL, LaTeX 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
- Secured AIR 91 and Global rank 101 out of 32100+, STARTERS 129
- 1000+ problems solved on various coding platforms [Leetcode, CodeChef, Codeforces, GFG, CSES]

# Certifications

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