

ATHARVA KULKARNI

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EDUCATION

Ramaiah Institute of Technology

Bangalore

B.E. in Computer Science and Engineering

2021 – Present | CGPA: 8.3

Coursework: Data Structures, Algorithms, Object Oriented Programming, Digital Logic, Computer Organisation & Architecture, Operating Systems, Database Management Systems, Computer Networks, Compiler Design

TECHNICAL SKILLS

Languages: C++, SQL, Python, Java

Web Technologies: HTML, CSS, Tailwind, NodeJS, Express.js

Backend&Databases: RESTful API design, MySQL

Developer Tools: Git, Github, Vercel, VS Code, Postman

PROJECTS

Search Application

[Deployment](#) [Source](#)

- Developed a search application utilizing the WikipediaAPI, enabling **real-time querying of over 6 million articles** in the vast Wikipedia database.
- Implemented **real-time search, asynchronous data handling and mitigating CORS**, along with robust error handling; enhanced user experience with **rapid response times under 2 seconds**.
- Designed a responsive web interface, ensuring optimal experience on both desktop and mobile
Stack: NodeJS, JavaScript, HTML, CSS, WikipediaAPI

Mental Health Chatbot

- Built an interactive chatbot that is capable of understanding and responding to user input in real-time with contextually relevant responses.
- Utilized natural language processing (NLP) techniques to analyze user messages and determine appropriate responses, effectively trained the chatbot on **100+ distinct tags**, enhancing user engagement.
- Achieved an **accuracy of 92.57% and reduced loss to 0.42 over 600+ epochs** on the training data.
Stack: Tensorflow, keras, nltk, numpy

Multi-Language Compiler

[Source Code](#)

- Engineered a compiler that is capable of **recognizing and parsing 5 languages, including C++, Java, Python, C#, Haskell**, demonstrating multi-language compatibility
- Streamlined the **token recognition and classification** process using the Python library **PLY**, achieved an accuracy of over **95% in the same**
- Built a interface to simplify input handling and visually display token classifications.
Stack: Python, ply, lex, yacc

WORK EXPERIENCE

Cranes Varsity

Bangalore

Intern

October 2023 - November 2023

- Acquired in-depth experience in web technologies over the 6 weeks, covering key aspects of database integration, web application development, server-side programming, and Software Development Lifecycle management
- Expanded my knowledge of Servlets, JDBC, JSP, MySQL and related web technologies, significantly enhancing my technical expertise

VOLUNTEERING

National Service Scheme — Volunteer

2023 – Present

- Contributed to a Blood Donation Camp at RIT campus, and visited orphanages and old age homes.

CentuRITon — Organizing Committee Member

2022

- Lead a team of 6 members at CentuRITon a National Level Hackathon which was conducted in our college campus, overseeing all aspects of event planning, coordination, and execution.