ACHYUTH P RAO

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EDUCATION

Dayananda Sagar College of Engineering	**CGPA:9.23**
B.E in Information Science and Engineering	*(Dec 2021 – Present)*
Shri Bhagwan Mahaveer Jain College	**98%**
Pre-University PCMB (KCET Ranking-5305)	*(Jun 2019 – Jun 2021)*

SKILLS

Languages: C, C++, HTML, CSS, JavaScript, SQL, Python.
Libraries/Frameworks: ReactJS, ExpressJS, MongoDB, Docker, Git, GitHub
Skillsets: MERN Stack Web Development, Natural Language Processing (LLMs), Data Structures.

WORK EXPERIENCE

Nokia | *Project Intern*   *(Feb 2024 – July 2024)*

- Translated **natural language into service intents** using LLMs like **Llama3**, increasing processing efficiency of the service orchestration system by **20%**.

Wise Work | *Intern*   *(Dec 2023 – June 2024)*

- Worked on **WiseEMS**, an advanced AI-powered project and employee management system, leveraging **.NET Blazor** for the frontend. Integrated a **Large Language Model (LLM)** that improved decision-making speed by **30%**, automated workflows, and enhanced user interaction.

Web Stack Academy | *MERN Stack Web Development Internship*   *(Aug 2023 – Nov 2023)*

- Successfully completed a project-based internship, building **a full stack web app from scratch**, utilizing multiple frameworks and tools like **Redux, Bootstrap, Cloudinary, Stripe, and Axios**, leading to a **50% improvement** in application performance.

PROJECTS

Intent-Based LLM for Service Orchestration [LLM | GEN-AI | Nokia | Natural Language Processing]

- Utilizing LLMs to translate natural language into intents, aligned with TMF921 Intent Management API standards.
- **Llama 3**, trained on over **8** billion instances, was perfectly suited for the task. Its robust training set allowed for high accuracy and reliability in performance, making it an ideal choice for complex and demanding applications.
- Engineered prompts for the Llama3 model to accurately generate **TMF921** Payload in JSON-LD format, ensuring precise and efficient data representation.

HACKMAN V7 | **https://hackman.in [ReactJS | PostgreSQL | ExpressJS]**

- **Led** a frontend team of **10 members** in designing the hackathon website **Hackman V7** using **React.js, PostgreSQL, and Express.js**, ensuring smooth **user registration** and event management.
- Directed the development of **2+** websites, ensuring timely completion and high-quality standards. Fostered **teamwork** and **collaboration**, promoting effective **communication** among **team** members.
- Successfully integrated diverse ideas and skills, enhancing overall project performance. Also developed **https://isecatalysis.in**

Crowd Estimation and Tracking using YOLOv8 and DeepSORT [Computer Vision | Object-Tracking | Neural Networks]

- **Implemented crowd estimation and tracking** using **YOLOv8** for real-time detection of individuals and **DeepSORT** for accurate tracking, achieving **80% accuracy** in crowd analysis, enabling precise analysis of crowd dynamics.

Bitez [ReactJS | MongoDB | ExpressJS | Redux]

- Developed a full-stack **food delivery** web application from scratch, utilizing frameworks like **Redux, Bootstrap, Cloudinary, Stripe, and Axios** to optimize the system's performance also reducing app loading time by **50%.**
- Integrated **Redux** for state management, reducing app loading time, **Bootstrap** for responsive design, **Cloudinary** for efficient image handling, and Axios for seamless API communication, improving data fetching speeds.

ACHIEVEMENTS & EXTRA-CURRICULAR

- **Frontend Team-Lead: Genesis** *Technical Team*   *(Nov 2022 – Present)*
- Contributed to the development of **3+ events and hackathon websites for the Genesis Student Forum**, Department of ISE at **Dayananda Sagar College of Engineering**, delivering user-friendly platforms for information dissemination and engagement
- Successfully Completed **Karnataka Music** (**Keyboard) Junior Grade Certification**   *(Aug 2017)*

HACKATHONS

- **PES University, KODIKON 3.0** *(Nov 2023)*

  Selected in the Top 40 teams out of 350+ teams nationwide.

  Developed a Full Stack Expense Tracker using ReactJs, Firebase and Firestore.

- **Freelance** website: curiouscapital.in
  - A portfolio website for a Crypto Investment Company, engineered using ReactJS, ExpressJs, MongoDB. Includes features like **Blogs Section, Admin Login, 3d Frontend.**

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