

Arunachalam B

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SUMMARY

Third-year B.Tech Computer Science student specializing in AI and ML. Dedicated to creating innovative solutions in web and mobile app development, game design, and AI-driven technologies. Proficient in front-end development, cybersecurity, and database management, with a keen interest in leveraging skills to develop impactful real-world applications.

EDUCATION

Bachelor of Technology - Computer Science (AI & ML)
Jain University

September 2022- August 2026
Bengaluru, Karnataka, India

EXPERIENCE

Futurense Technologies Intern April 2024 - June 2024
Bengaluru, Karnataka, India

- Contributed to a healthcare project using Python libraries such as Pandas for data preprocessing, visualization, and analytics.
- Applied feature selection, residual analysis, and error analysis to optimize model performance, enhance prediction accuracy, and ensure statistical reliability.

PROJECTS

Chat Application (React.js, Node.js)

- A real-time chat application built with **React.js** and **Node.js** using **Socket.io** for instant messaging, **JWT** for authentication, and **MongoDB** for data storage.

Vehicle Recognition System (YOLOv8, OpenCV, NVIDIA CUDA)

- Built a **YOLOv8-based vehicle recognition system** with **GPU-accelerated blacklist detection** using **OpenCV** and **NVIDIA CUDA**.

AI-Based Healthcare App

- Built an **AI-powered app** using a **pre-trained deep learning model** to detect **wounds, blood scars, and medicines** from images, delivering **real-time first aid guidance** and **pill identification**.

Food Delivery App (Flutter)

- Created a mobile app for **food delivery services**, including features like **user authentication**, a **searchable menu**, **order tracking**, and **payment gateway integration**.

ChatBot(Node.js)

- A customer support chatbot that automates responses to inquiries using **predefined messages**, improving **service efficiency** and reducing **wait times**.

Car Racing Game (C#)

- Designed a basic 3D car racing game with **interactive gameplay mechanics**, **collision detection**, and **score tracking** using **C#**.

SKILLS

Programming languages : Python, Java, C, C++

Web Development : HTML, CSS, JavaScript, React

App Development : Flutter, React Native

Game Development : Basic principles of game design

AI & Machine Learning : Machine Learning, Deep Learning, Data Analytics, Data Visualization

Database Management : MySQL, Data Structures

Cybersecurity & Ethical Hacking : Fundamentals of cybersecurity