

ARYAN KUMAR

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Education

Ramaiah Institute of Technology

Bachelor of Engineering in Computer Science Engineering

Expected Graduation: April 2026

CGPA: 8.72

Relevant Coursework

- Design and Analysis of Algorithms
- Database Management
- Software Engineering
- Object Oriented Programming
- Data Structures
- Data Communication and Networking
- Artificial Intelligence and Machine Learning
- Operating Systems

Experience

Ramaiah Institute of Technology

August 2023 – October 2023

Web Development Intern

Bangalore, India

- Developed a full-stack Job Application Tracker web app to help users manage job applications and monitor their progress.
- Built the frontend using React.js and Tailwind CSS for a clean and responsive user interface.
- Created a RESTful backend using Node.js and Express, and implemented CRUD operations with MongoDB as the database.
- Integrated user authentication with JWT and secure login/registration functionality.
- Deployed the application on Render (frontend/backend) and used MongoDB Atlas for cloud-based database hosting.

Projects

MBTI Chatbot for Students | Python, DistilRoBERTa, mBERT, Flask

March 2025

- Developed an adaptive AI chatbot that engages students and predicts their MBTI traits and emotional states through conversation.
- Used **DistilRoBERTa** for real-time sentiment classification across labels such as academic stress, anxiety, and happiness.
- Integrated **mBERT** to support multilingual conversations and emotion detection across languages.
- Implemented personalized dialogue flows based on detected mood, providing relevant suggestions and support.

Seminar Hall Booking System | MERN Stack, Jenkins, Prometheus, Grafana

February 2025

- Built a full-stack system to manage institutional seminar hall bookings with user roles, calendar sync, and approval workflows.
- Implemented CI/CD pipeline using **Jenkins** for automated builds and deployment.
- Integrated monitoring with **Prometheus** and visualized real-time metrics using **Grafana** dashboards.
- Ensured role-based access, real-time availability, and responsive frontend using React and Tailwind CSS.

Cross-Lingual Text Summarizer | Python, mBERT, Transformers, Flask

January 2025

- Designed a text summarization tool that generates accurate summaries across multiple languages.
- Used **mBERT embeddings** to convert text into language-agnostic representations for semantic understanding.
- Implemented extractive summarization techniques using similarity-based ranking and sentence scoring.

Greenhouse Gas Emissions Tracker | MySQL, Flask, HTML/CSS, JS

December 2024

- Developed a web-based platform to log and track greenhouse gas emissions data across various industrial sectors.
- Designed SQL schema to store emissions by region, source, and time, enabling advanced querying and analytics.
- Built interactive dashboards for users to visualize trends and identify high-impact emission sources.

Technical Skills

Languages: Python, Java, C, HTML, CSS, JavaScript, SQL, MongoDB

Developer Tools: VS Code, Eclipse, Android Studio, Google Cloud Platform, GitHub

Technologies/Frameworks: Node.js, Express.js, React.js, Tailwind CSS, Linux, Jenkins