# Uvajanani R P

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## EDUCATION

**K. Ramakrishnan College of Engineering, Tiruchirapalli**  —  CGPA : 9.12
*Bachelor of Engineering in Computer Science*  —  *Nov 2022 – June 2026*

**Nirmala Matriculation Higher Secondary School, Cuddalore**  —  Percentage : 96.66
*HSC*  —  *June 2021 – May 2022*

## EXPERIENCE

**Web Development Intern**  —  June 2024 – July 2024
*CodSoft*

- Designed and built a static travel website showcasing destinations, packages, and travel details with a user-friendly interface.
- Developed a dynamic and responsive Portfolio website to showcase my projects, technical skills, and achievements; integrated GitHub repositories, and contact form with email functionality for seamless user interaction.

## PROJECTS

**AI-Powered Overthinking Recovery App** | *React.js, Node.js, Express.js, MongoDB, Flask*  —  January 2025

- Engineered a full-stack **mental wellness platform** that aids overthinkers through AI-powered emotion detection, stress tracking, and personalized support.
- Developed deep learning models to classify emotional states from speech (**MFCC, Chroma**) and text, integrated via Python-Flask APIs.
- Designed **gamified wellness tools** including Meditation, Balloon Therapy, and Personalized Story Generator with **emotion-based storytelling and speech playback**.
- Built an interactive **community forum** using Socket.IO with real-time messaging, active user tracking, and message controls.

**EduSpark** | *Node.js, Express.js, React, MongoDB, Three.js*  —  February 2025 – Present

- Developed an **interactive educational platform** with **animated subject videos** and integrated **3D modeling** for immersive learning experiences.
- Implemented an **adaptive assessment system** with **gamified quizzes** that **redirect students** to relevant lessons upon failure.
- Designed a **student progress dashboard** featuring **badges, levels**, and **performance tracking**.
- Integrated an **AI-powered chatbot** to assist students with doubts in real time.

## RESEARCH INITIATIVES

**Accident Hotspot Prediction and Prevention** | *Data Analysis, IoT, AI-driven Traffic Monitoring*  —  January 2025

- Conducted research on **accident-prone zones**, analyzing patterns to develop **proactive safety measures**.
- Proposed a **smart display board system** integrating **real-time weather updates, traffic rerouting**, and **dynamic speed recommendations** to minimize road accidents.
- Explored **AI-Driven traffic monitoring** and **IoT-based sensors** to detect **congestion patterns** and suggest optimized travel routes.

## TECHNICAL SKILLS

**Languages**: Java, Python, SQL, MongoDB, JavaScript, HTML/CSS
**Frameworks**: React, Node.js, Express.js, Tailwind CSS
**Developer Tools**: Git, VS Code, Visual Studio, Kaggle, Eclipse
**Others**: Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management System, Object Oriented Programming