

# Praveen Prakash Hebbal

## Education

2022 – 2026 **B.E in Computer Science & Engineering**, RV College of Engineering, Bengaluru, CGPA: 8.64  
2020 – 2022 **Karnataka Secondary Education - Class XII**, Konnur Science PU College, Yallatti, score: 94%

## Skills

Languages C, C++, HTML, CSS, JavaScript, Python, SQL  
Concepts DSA, OOP, Operating Systems, DBMS, AIML, Computer Networks, REST APIs  
Tools Git/GitHub, GeeksforGeeks, VS Code, TensorFlow, Scikit-learn, Google Colab

## Projects

- Rider Guardian System
- Built an IoT-powered motorcycle safety platform with crash detection, health and fleet monitoring, and emergency alerting. Sensors (alcohol, heart rate, MPU6050, GPS, helmet) send real-time data to a Node.js backend via Arduino.
  - Developed a full-stack app using React, Vite, TypeScript, Tailwind CSS, and REST APIs. Key features include predictive maintenance, fleet dashboard, and Location Tracker too ,
  - GitHub: [github.com/praveengalaxy/rider-guardian-system](https://github.com/praveengalaxy/rider-guardian-system)
- AI-Powered Cybersecurity Threat Detection System
- Developed an AI system to detect CAN bus cyberattacks (DoS, Fuzzy, Impersonation) in real time using Python and ML models (TensorFlow, Scikit-learn), trained on automotive datasets.
  - Deployed with Flask/FastAPI, integrated real-time CAN monitoring and visualization (Matplotlib, Seaborn), with optional MySQL logging. Designed for future embedded deployment.
  - GitHub: [github.com/praveengalaxy/...Automotive-Systems](https://github.com/praveengalaxy/...Automotive-Systems)
- EduThon: AI-Powered Parental Learning Companion
- Built an AI-powered education platform to help parents teach children through personalized concept explanations powered by Google Gemini, with multilingual support and analytics.
  - Backend (Flask) serves AI explanations; frontend (React) features gamified lessons, quizzes, dashboards, and progress tracking for both parents and kids.
  - GitHub: [github.com/praveengalaxy/EduThon](https://github.com/praveengalaxy/EduThon)

## Coding Profile

LeetCode praveen-hebbal <https://leetcode.com/u/praveenphebbal/>  
GeeksforGeeks praveen-hebbal <https://www.geeksforgeeks.org/user/praveenhehidy/>

## Achievements

- Secured award of merit in Enterprise Architecture conducted by The Open Group at New Delhi

## Hobbies

Exploring AI & IoT innovations, watching science fiction and movies, playing volleyball and cricket, reading tech blogs