Pavan Kumar R

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EDUCATION

B.E in Computer Science & Engineering 2022 - 2026
RV College of Engineering, Bengaluru *Current CGPA: 7.75*
Karnataka Secondary Education - Class XII 2020 - 2022
MAHADEVA PU College, HOSAKOTE *Percentage : 87.50%*

SKILLS

Languages: C, C++, Java, Python
Development: HTML, CSS, JavaScript, Node.JS
Databases: SQL, MongoDB
Core CS: Data Structures & Algorithms, Object Oriented Programming
Tools: Git/GitHub, VS Code, GeeksforGeeks, Xampp Server

PROJECTS

Event Management System | *MySQL, MongoDB,Python (Flask), React.js*
- Designed and implemented a hybrid database system using **MySQL** for structured event data.
- Built core modules including **User Registration, Event Scheduling, Venue Management, Ticketing, and Payments**.
- Developed an **AI-powered recommendation engine** for venue and organizer suggestions based on historical data, ratings, and cost efficiency.
- **GitHub:** Link

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:** Link

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 to enhance in-vehicle cybersecurity.
- **GitHub:** Link

CODING PROFILE

GeeksforGeeks: PavankumarR
Leetcode: pavankumarr2004
GeeksforGeeks: pavankumarr2004

ACHIEVEMENTS

- Secured 971th rank in KCET 2022.
- 4thd place in coding contest hosted by Coding Club.
- Inter-college hackathon: built prototype in 24 hours.