PRASANNA N R

🌐 Portfolio | 💼 /prasanna-nr | 💻 Prasanna-NR
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Academic Qualification

B.E Electronics and Communication Engineering
K.L.N College of Engineering (2021-2025)   **CGPA - 8.02**

HSC
S.P.J.Matric Hr Sec School (2020-2021)   **Percentage - 79.5%**

SSLC   **Percentage - 72%**
S.P.V.Matric Hr Sec School (2018-2019)

Skills

Programming Languages : Python, C
Backend & Databases : Flask, SQL, Firebase
Tools & Platforms : Git, GitHub, VS Code, Power BI, Google Colab

Projects

Cloud Integrated IoT System for Soil Monitoring and Crop Management System

- Developed an interactive web dashboard with IoT sensors and Firebase for real-time monitoring of soil conditions and weather data, enabling both remote and automatic irrigation control.
- A machine learning model (Random Forest Classifier) analyzes soil and environmental data to recommend suitable crops, enabling precision agriculture.

SecureAuth - Authentication System

- Complete authentication system built with Flask and Firebase, supporting user registration and login with secure user management.
- Implemented email-based OTP verification, secure password management, role-based access control, and an admin dashboard.

Power BI Employee Presence Analysis Dashboard

- Developed an interactive Power BI dashboard to analyze employee attendance, visualizing presence %, WFH rates, and sick leave trends, enabling HR insights through monthly, daily, and individual performance analysis.

Internship

Project Intern, K.L.N Innovation and Research Park – Sivaganga,Tamil Nadu   Mar - Dec 2023

Laser Transmitter and Receiver Signal Coordination System for Land Levelling unit

- Developed a Laser Transmitter and Receiver Signal Coordination System for real-time, accurate terrain profiling. Created graphical representations of land surfaces for precise land levelling in agriculture.

Certificates

- Google Data Analytics Professional Certificate – Coursera
- Introduction to Internet of Things – NPTEL (IIT Kharagpur).
- Introduction to Industry 4.0 and Industrial Internet of Things – NPTEL (IIT Kharagpur).