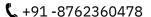
SURAJ P







Education

BTech in Computer Science PES University 2025 CGPA: **9.10**Higher Secondary Education Karnataka PU Board 2021 Percentage: 96%
Primary - Higher Education Karnataka State Board 2019 Percentage: 95.67%

Technical Skills

Programming Languages : C, C++, Python, Javascript, SQL

Tools :Git, Github, Postman, MongoDB, MySQL,

Frameworks & libraries : ReactJS, NodeJS, Bootstrap, Mongoose, Express, Pandas, NumPy, Sklearn

Courses : DSA, DAA, OS, Web Tech., Statistics for DS, CN.

Projects

Pixel Art - Image editing and storing platform

Node JS, MongoDB, Express, ReactJS, Postman

- Created a user-friendly website, equipped with fundamental image editing tools including rotation, cropping, and saturation adjustment functionalities.
- Established a vibrant user community, facilitating seamless requests for professional image editors to refine pictures, subsequently exhibited on the platform.
- Engineered a robust image storage mechanism within the website's database, streamlining user accessibility and retrieval of stored images.
- Implemented a secure login system, ensuring user privacy and personalized experiences on the platform.

• Smart home system - Iot

IR Sensor, UltraSonic Sensor, Gas sensors, ESP8266 microprocessor

- Designed and implemented a home automation system aimed at liberating individuals from routine tasks, empowering them to focus on their passions and hobbies.
- Engineered an automatic water tank filling mechanism, an intrusion alert system and a gas leakage detection system, enhancing both convenience and safety.
- Established seamless data transmission to a dedicated mobile app, ensuring effortless real-time monitoring of the system's readings and alerts.
- Successfully developed a functional prototype of the home automation system, effectively showcasing its capabilities and potential impact.

Water Quality Prediction using ML.

Python, NumPy, Pandas, Sklearn

- Developed a machine learning solution focused on forecasting the water quality of rivers, offering a datadriven approach to address environmental concerns.
- Curated an extensive dataset encompassing vital water quality metrics, including pH levels, conductivity, coliform concentration, and biological oxygen demand (BOD), enabling the model to attain a comprehensive understanding of water conditions.
- Employed machine learning algorithms to train the predictive model, effectively capturing intricate patterns and relationships within the dataset to deliver accurate and actionable predictions.

Achievements

- 3 times MRD scholarship awardee for being among the top 20% in the department
- Certificate of achievement for completing course on full stack web development under PESU I/O program