SURAJ P

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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 data-driven 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