

PURUSHOTTAM B K

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Professional Summary

Innovative Electronics and Communication Engineer with expertise in **Python, IoT, and Machine Learning**. Passionate about solving real-world problems through technology, with hands-on experience in PCB manufacturing, **AI, and embedded systems**. Strong analytical mindset, **collaborative team player**, and proactive **problem-solver**. Recognized for **excellence in project execution and research**.

Technical Skill's

- **Programming Languages:** Proficiency in Python, and object-oriented design.
- **Proficient in:** HTML, CSS, MySQL, DBMS, Networking.
- **Proficient in:** Analytical skills, communication skills, Problem Solving, Teamwork and Collaboration.
- **Tools and IDEs:** Working knowledge of IDEs (like VS Code), debuggers, and build tools
- **College coursework:** Artificial Intelligence, Machine Learning, MATLAB, Embedded Systems and IoT .

Projects

1]IoT Based Paralysis Patient Healthcare System

Description: we grown an efficient system that can assist the paralyzed patient. we have used different sensors such as **flex sensors, accelerometer, LM35, ECG sensors** ,where these sensors monitor the health of the patient. we have designed a model which monitors the sensor input using **Atmega2560 microcontroller**. For real time condition of patient we used **GSM module** which send information by bending the fingers of patient, each fingers have an specific information displayed on **LCD and caretakers mobile phone**.

2]Barcode and QR Code Reader using Python and Machine Learning

Description: Developed a barcode and QR code reader using Python and machine learning to **capture live camera feeds, detect codes** in real-time, and decode stored information. The recognized data was displayed on-screen and exported to a text file. Demonstrates practical applications of computer vision in everyday tasks.

Skills Used: Python, Computer Vision (OpenCV), Machine Learning, pyzbar Library, Pillow (Python Imaging Library),

Internship's / Work Experience

Intern in PCB assembly and manufacturing at Centum Electronics Limited Bengaluru, Karnataka |February 2024 – April 2024

- Advance robust expertise in PCB manufacturing and quality control, leading to a 30% reduction in defect rates by optimizing inspection techniques and automating key process checkpoints.
- Innovated PCB board development and quality assurance protocols, coordinating with diverse teams to troubleshoot and resolve challenges; achieved a 30% improvement in reliability and saved 10 hours per week in rework time.

Achievements/Certifications

- *Our project Titled “**IoT Based Paralysis Patient Healthcare System**” got **1st** place in college final year Project Exhibition.
- *Completed an intensive **Python for Data Science** course by **IBM Developers Skill Network**
- * **IEEE International Conference on Data Science and Information Science(2023) – IEEE**
- * Certification on **Python Programming - Webnet Solutions**
- * Certification on C-Programming - **Coursera**

Education

PES College of Engineering

• Bachelor of Engineering, Electronics and Communication Engineering (CGPA – 7.51)

Mandya, Karnataka

December 2020 – July 2024

Declaration

I do hereby declare that the above information is true to the best of my knowledge.

Purushottam B K

Place: Bengaluru