Punith BR

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EDUCATION

PES University   Bengaluru
BTech, Computer Science and Engineering | *CGPA: 8.25*   *2024 – 2027*

SJ [Govt.] Polytechnic   Bengaluru
Diploma, Computer Science and Engineering | *Percentage: 90.80%*   *2021 – 2024*

PROJECTS

Blind Assistance Device *Python, Raspberry Pi, Gemini API*   **GitHub Repo**

- Designed and developed a portable smart assistant for visually impaired individuals using Raspberry Pi 3B+.
- Integrated Raspberry Pi Camera Module to capture real-time video frames for object detection.
- Implemented audio feedback system using text-to-speech libraries (GTTS) to announce detected objects through earphones.
- Focused on low-latency performance and power efficiency for continuous assistance in daily navigation.
- Integrated a GPS module to track real-time location of the user.
- Added an emergency SOS feature using a tactile push button that, when pressed, sends an alert email with the user's live GPS location to their family members.

Smart Attendance System using Face Recognition *Python, OpenCV, Flask*   **GitHub Repo**

- Developed a real-time face recognition system to automate attendance.
- Integrated OpenCV for video capture and face detection.
- Used `face_recognition` library for accurate facial matching.
- Built a Flask-based web interface with live video streaming.
- Logged attendance with timestamps into CSV, preventing duplicate entries.

VIRTUAL EXPERIENCE

Machine Learning Specialization (Coursera)
Instructor: Andrew Ng   *Virtual*

- Completed ML Specialization covering regression, classification, and model evaluation using Python
- **Certificate: View Credential**

ACHIEVEMENTS

Qualified for S2 in CIE Ignite
Centre for Innovation and Entrepreneurship (CIE)

- One among 49 teams out of 443

Diploma Cricket Team (Runner-Up)x2   2022 & 2023
Inter-department Tournament

- Secured runner-up position twice representing department cricket team.

SKILLS AND INTERESTS

Languages: C/C++, HTML/CSS, Python (Pandas, NumPy, Scikit-learn, Matplotlib/Seaborn)
Developer Tools: Git, GitHub, Visual Studio Code, ChatGPT
Interests: Playing cricket, Cooking, Competitive Programming