Atharva Bhusnale

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Committed and flexible Full Stack Web Developer with proficiency in C, C++, Java, Python, and SQL, as well as the MERN stack (Express.js, Node.js, and MongoDB). Competent in database administration and RESTful APIs, with a track record of working in teams, completing projects from start to finish, and producing code that is sustainable and easy to use. eager to innovate and use technical skills in a variety of settings.

Projects

Application Tracking System Link
Tech Stack: Python, Flask, spaCy, PyPDF2, SQLite, HTML, CSS , JavaScript, JSON

- Developed a web-based application using **Python**, **Flask**, and **spaCy** to parse PDF resumes, extracting key details like name, skills, and experience, with data stored in a **SQLite database** for efficient tracking.
- Utilized **PyPDF2** for PDF processing, **pyenv** and **virtualenv** for environment management, and **HTML/JSON** for the user interface.
- solved **NumPy** compatibility issues, integrated a virtual environment setup for cross-platform consistency, and designed a relational database schema for structured data storage..

RetinoDetect - Diabetic Retinopathy Detection System
Tech Stack: : Python, TensorFlow, PyTorch, OpenCV, Pillow, Flask, FastAPI, NumPy, Pandas, MongoDB, SQLite, HTML, CSS, JavaScript, React.js, Git, Jupyter Notebook

- Designed and developed an AI-based web application using **Python**, **TensorFlow**, and **OpenCV** to detect diabetic retinopathy from retinal images, enhancing early diagnosis accuracy.
- Built a **Flask API** and **React.js** frontend for image upload and result display, with **MongoDB** for data storage, and utilized **pyenv**, **virtualenv** for environment management and deployment.
- Implemented image preprocessing techniques (e.g., resizing, normalization) to improve model performance, integrated a custom CNN model trained on a labeled dataset, and added real-time validation to ensure data integrity.

Experience

One Open Educare Federation Nashik, Maharashtra
Python Developer Intern February, 2025 - May, 2025

- Developed mathematical and graphical animations using the **Manim library** in Python to support course content aligned with the **NEP 2020 framework**, enhancing conceptual clarity through visual representation of formulas and processes.
- Designed and simulated 3D component models using **TinkerCAD** to analyze force distribution and mechanical transfer, aiding in prototyping and preparation for 3D printing as part of educational and engineering design workflows.

Hackathon Participation

TourTime – Smart Itinerary and Tourism Promotion Platform **(SIH-2024)**

- Built a tourism platform offering personalized itineraries, cultural insights, and niche tourism support.
- Enabled content sharing for creators; integrated **Google** and **OpenWeather** APIs for real-time travel data.
- Built responsive UI with **React.js** and **Bootstrap**;backend with **Node.js**,**Express.js** and **MongoDB**.
- Implemented secure user authentication and role-based access using **JWT**, ensuring protected access to user-specific features.

Additional Skills

Programming Languages: C, C++, Java
Database Systems: Relational Databases, MySQL, MongoDB
Tools and Platforms: Git, GitHub, VS Code, Zed , PyCharm, Eclipse.
CS Fundamentals: DBMS, Software Engineering, Computer Network Security (CNS).
Soft Skills: Strong communication, problem solving, adaptability, critical thinking, teamwork.

Education

B.E. Computer Engineering 2022-2026
MET's Institute of Engineering, Nashik (SGPA-8.3)