Prafful Bisht

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Education

SRM University Modinagar, Delhi-NCR
Bachelor of Technology,Computer Science with Specialization in AI/ML *Sep. 2021 – June 2025*
GPA: 9.50

DAV School Paonta Sahib, Himachal Pradesh
Higher Education *2021*
12th Standard: 2020-2021

10th Standard: 2018-2019

Experience

AI engineer August 2024 – Present
ResoluteAi *Remote*

- Developed and fine-tuned deep learning models for various AI-based solutions, contributing to enhanced performance and accuracy in predictive analytics.
- Executed data preprocessing, feature extraction, and pattern mining techniques to enhance the development of robust and effective AI models.
- Implemented and optimized machine learning algorithms, including CNNs and YOLO models, for computer vision tasks and real-time data analysis.
- Collaborated with the team to design and deploy end-to-end AI solutions, including building analytical dashboards and creating AI proofs of concept (POCs) for client projects.

Web Developer Feb 2023 – Mar 2023
Oasis Infobyte *Remote*

- Utilized HTML, CSS, and JavaScript to create visually appealing and interactive web pages.
- Worked on version control systems like Git to manage and track changes to codebase, ensuring effective collaboration with team members and a systematic approach to code management.
- I actively engaged in expanding my skill set and knowledge by immersing myself in various web development frameworks like Bootstrap,Nodejs,Express etc.

Summer Internship and Industrial Training on Android Development Sep 2022 – Nov 2022
Netcamp Pvt Ltd *Remote*

- Contributed in hands-on coding and development tasks, allowing me to apply theoretical knowledge to real-world Android application projects using Proximity,Gyroscope and Camera Sensors
- Showcased proficiency quickly grasp the core concepts and syntax of diverse frameworks, showcasing my capacity to learn and adapt to new technologies efficiently.
- Gained an in-depth understanding of the Android ecosystem, including the Android SDK, Android OS versions, and the Google Play Store submission process.

Projects

ML-Based NutriScore Analysis | *Pandas, Tesseract, NumPy, Random Forest Regression* July 2024 – present

- Led the project to enhance text clarity on nutritional labels through preprocessing techniques.
- Applied the OCR model to accurately extract textual information from product labels.
- Use natural language processing methods to analyze the extracted nutritional data.
- Compiled nutritional information into Excel sheets for easy reference, leveraging data from OpenFoodFacts.
- Provide a comparative analysis of health risks associated with different food items based on the extracted nutritional information

Hand Gesture Volume-control Web Application | *CV, Numpy, Flask, Python,* Jun 2024 – Jun 2024

- Developed an innovative system that allows users to control their computer's volume using hand gestures.
- Deployed OpenCV and MediaPipe libraries for accurate and efficient real-time hand detection and tracking through the webcam.
- Integrated Pycaw to seamlessly map hand gestures to system volume levels.

- Engineered a mechanism to calculate the distance between the thumb and index finger to adjust volume precisely.
- Optimized user experience by displaying volume levels and FPS directly on the webcam feed, providing immediate visual feedback.

Virtual-Paint-Brush Web Application | *CV, Numpy, Flask, Python* Jun 2024 – Jun 2024

- Created a web application enabling users to paint virtually using hand gestures.
- Applied OpenCV and MediaPipe libraries for precise real-time hand detection and tracking through the webcam.
- Designed a system where users can select colors and draw on a digital canvas using hand gestures.
- Incorporated drawing and erasing functionalities by measuring the distance between fingers and converting gestures into actions.
- Offered a live video feed displaying hand movements, drawing activities, and color selection, enhancing user interactivity.

Celebrity Face Recognition System | *OpenCV, LBPH (Local Binary Patterns Histograms* Mar 2024 – Mar 2024

- A system specialized in detecting and recognizing faces of Bollywood celebrities within images.
- Using the LBPH face recognizer to classify each detected face against a Kaggle-sourced database of known Bollywood celebrities.
- Annotated recognized faces with labels, visually indicating the presence of identified individuals in the image
- Deployed for media management, content recommendation systems, and celebrity event coverage, automating identification and tagging of well-known personalities.

Certifications

Introduction to Machine Learning | *NPTEL* July 2023 – Sep 2023

Computer Vision | *Kaggle* Jun 2024 – July 2024

Web Development | *Udemy* Jan 2023 – Dec 2023

Android Development | *Netcamp* Nov 2022 – Jan 2023

Technical Skills

Languages: Python, C/C++, SQL,PostgreSQL , JavaScript, HTML/CSS
Frameworks: React, Node.js, Express,KERAS
Developer Tools: Git, MongoDB/Mongoose, Firebase, VS Code, pgAdmin, Visual Studio, Android Studio, PyCharm, IntelliJ
Libraries: Turtle, STL (C++), Pandas, TensorFlow,OpenCV, Mediapipe,Matplotlib