PARAS MISRA

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Santokhgarh, District-Una, Himachal Pradesh, India

Professional Summary

Recent MCA graduate with practical experience in Python, Flask, Machine Learning, Deep Learning, and Computer Vision. Completed multiple academic and personal projects involving real-time object detection, emotion recognition, and predictive analytics using machine learning techniques. Proficient in data analysis, API integration, and building web applications. Seeking an entry-level role as a **AI/ML Engineer**, or **Data Analyst** to apply and expand technical expertise in a collaborative environment.

Education

Master of Computer Applications (MCA)
Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib, Punjab, India
Expected Graduation: June 2025

Bachelor of Computer Applications (BCA)
Government P.G. College, Una, Himachal Pradesh, India
Graduated: June 2022
CGPA: 7.56 / 10

Technical Skills

- **Programming Languages:** Python, HTML, CSS, SQL
- **Web Development:** Flask, Bootstrap, API Integration
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- **Database Management:** MySQL
- **Machine Learning & AI:** Scikit-learn, TensorFlow, Open CV, Deep Learning Basics
- **Tools & Platforms:** Git, Jupyter Notebook, VS Code, GitHub, Google colab, Glitch, Hugging face, Python anywhere

Projects

AI Based Solutions

- **Description**: The AI-Based Solution is a comprehensive platform that combines smart features like emotion and age detection, real-time object detection with OCR, AI-generated summaries, and machine learning-based predictions. It empowers users with tools for emotional support, visual analysis, and accurate predictive insights—all accessible through a clean, web-based interface.
- **Technologies**: HTML, CSS, JavaScript, Bootstrap, Python, Flask, OpenCV, YOLO, DeepFace, (for predictions: diabetes, heart, wine, diamond, student performance, iris), VS Code, Google Gemini API, Pandas, NumPy, Pickle (for model handling).

Vision Speak

- **Description**: Developed VisionSpeak, a web-based assistive application that performs real-time object detection, depth estimation, and text-to-speech narration from webcam feeds, enabling accessible audio descriptions of environments. Built a responsive interface with dynamic video streaming and object visualization.

- **Technologies**: Python, Flask, OpenCV, YOLOv5, MiDaS, pyttsx3, React, Tailwind CSS, JavaScript, Git, npm.

Face Recognition-Based Attendance System

- **Description**: Built a web-based face recognition attendance system using Flask and Hugging Face models.
- **Technologies**: Hugging Face (Face Recognition Model), Flask, Glitch.

Certifications

- **Data Science and Analytics** – Centre for Development of Advanced Computing (C-DAC), Mohali
- **Web Development Course** – National Skill Development Corporation (NSDC), India

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Training & Internship

Web Development

National Skill Development Corporation (NSDC), India

Role: Designed and developed responsive websites using HTML, CSS, Bootstrap, and integrated APIs.

Data Science & Analytics Training

Centre for Development of Advanced Computing (C-DAC), Mohali

Focus Areas: Data preprocessing, statistical analysis, visualization (using Pandas, NumPy, Matplotlib, Seaborn), and machine learning fundamentals.

AI & Machine Learning Training (In Progress)

National Institute of Electronics & Information Technology (NIELIT), Ropar in collaboration with IIT Ropar

Focus Areas: Deep learning, model building, and computer vision using TensorFlow and OpenCV.

Languages

- **English:** Intermediate proficiency
- **Hindi:** Native proficiency
- **Punjabi:** Native proficiency