VAISHNAVI SINHA
ABES IT,GHAZIABAD
portfolio

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Education

Aug22-May26	ABES Institute of Technology, Ghaziabad Bachelor of Technology, Computer Science & Engineering(Artificial intelligence)	7.89/10
2022	12th (Senior Secondary Examination) Central Board of Secondary Education	78%
2020	10th (Secondary Examination) Central Board of Secondary Education	80%

Work Experience

Jun-Jul'25   **Machine Learning Intern, Code Craft Infotech, Pune, Maharashtra, India**
- **Engineered** a real-time Hand Gesture Recognition System using OpenCV, MediaPipe, and TensorFlow, achieving **90%+ accuracy** in gesture classification for interactive human-computer interfaces.
- **Trained** a Food Recognition and Calorie Estimation Model using CNNs and transfer learning on **over 10,000 images**, estimating nutritional values with **88% precision**
- **Optimized** model performance by implementing advanced image preprocessing techniques, including normalization and augmentation, **improving usability across diverse lighting conditions.**

Sept- Oct'24   **Web Development Intern, Soft Pro (virtual internship/training), Noida, Uttar Pradesh, India**
- **Created** a Career Path Suggestion Tool using HTML, CSS, and JavaScript that matched users to relevant tech roles based on skill selection.
- **Designed** a dynamic skill-role mapping system with JSON data structures, **increasing user engagement by 30%** through an intuitive UI .
- **Ensured** seamless functionality across desktop and mobile platforms by integrating responsive design principles.

Academic Projects

Feb-May'25   **Skin Analysis & Color Recommendation System**
- **Engineered** a CNN-based deep learning model that classified acne, pigmentation, dark circles, and skin types with **92% accuracy**.
- **Deployed** the model as a Flask web application, supporting live camera feed and image uploads for real-time skin analysis.
- **Developed** a personalized color recommendation engine that suggested suitable fashion and skincare tones based on detected skin type, **improving user satisfaction by 70%**
- **Automated** PDF report generation, summarizing findings and recommendations for end-users, **reducing manual report creation time by 90%.**
- **Designed** a clean, interactive UI/UX using HTML/CSS, **improving accessibility and user satisfaction by 80%.**

Technical Skills

Languages	Python, R ,
Web Technologies	MySQL, HTML, CSS, JavaScript, Flask (API)
Data Analysis &tools	Pandas, NumPy, Matplotlib, Seaborn, Power BI ,Tableau,
Machine Learning	Scikit-learn, XGBoost, LightGBM, Regression, Classification, Clustering, EDA, Model Tuning
Deep Learning	TensorFlow, Keras, CNNs, OpenCV, Image Classification, Transfer Learning
Design & UI Tools	Figma, Canva, Responsive Web Design
Version Control	Git, GitHub
Development Platforms	Jupyter Notebook, Google Colab, VS Code

NLP & GPT Tools	ChatGPT, Prompt Engineering, NLP Concepts

Additional Information

- Completed the Deloitte Data Analytics Virtual Internship (Forage)
- Participated in Shell.ai Hackathon 2025 (Fuel Blend ML Challenge)
- Shared educational UI designs and ML project demos on LinkedIn
- Active GitHub contributor with end-to-end ML deployment projects
- Created and published responsive UI/UX designs for web apps in personal portfolio
- Fluent in English and Hindi | Strong verbal and written communication