Gurjinder Singh

Data Science Enthusiast | Python & ML Learner

PROJECT-WORK:

Mart' O - AI-Powered E-Commerce & Price Prediction Platform

Built Mart' O, a feature-rich e-commerce website that allows users to buy new and used smartphones, while integrating advanced machine learning and computer vision features for added value.

- Developed a full-stack web application with sections for Mobile Price Prediction and Laptop Price Prediction using trained Ensemble models.
- Integrated ordinal encoders to preprocess categorical data such as brand, CPU type, RAM, storage, and OS features.
- Designed a clean and modern UI for browsing and purchasing mobile devices, including options for new and second-hand phones.
- Used Flask as the backend framework, and implemented the frontend with HTML, CSS, and JavaScript for a responsive, user-friendly experience.

INTERACTIVE CHATBOT FOR PRODUCT COMPARISON:

- Developed and integrated a **chatbot system** into the Mart' O e-commerce website, enabling users to interactively **compare mobile phones and laptops** for informed purchasing decisions.

TRAINING:

Completed a comprehensive 6-month training program focused on Artificial Intelligence and Machine Learning, conducted by NIELIT Ropar in association with IIT experts.

Machine Learning & Web Deployment Projects:

Developed and deployed multiple ML/DL models integrated into a unified web platform using Flask and hosted on Render.

Projects include:

- **Mobile & Laptop Price Prediction:** Achieved **R^2 score of 0.90** on the test set and **0.984 on training set**
- **SMS Spam Detection**: Developed a spam detection model with **99% precision** and 100% accuracy using RF regression
- **Face Recognition & Live Face Detection**: Integrated OpenCV and deep learning to recognize and track faces in real time.
- **Iris Classification**: Built a classifier to categorize iris species using classical ML algorithms.
- **Heart Attack Prediction**: Developed a predictive model to assess heart attack risk based on medical data model accuracy 100%
  Precision score 1.0
- **Dog vs Cat Image Classification**: Created a CNN model to classify animal images into dogs or cats.

All models were deployed on a user-friendly web interface, allowing live input and prediction.

INTERESTS:

- **ArtificialIntelligence**
- **Python**
- **Robotics and Automation**

LANGUAGE:

- **ENGLISH (INTERMEDIATE)**
- **HINDI(GOOD)**
- **PUNJABI(FLUENT)**

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Skills:

- **Programming Languages: Python**
- **Technologies: Machine Learnings, Deep learning**
- **Data Handling Tools: Matplotlib, Seaborn, Pandas, NumPy, PostgreSQL**
- **ML Frameworks: Sklearn, Tensor flow, OpenCV**
- **OtherS:HTMl,CSS (Frontend), Flask (Backend), Gradio, Glitch**

Education:

- 10^{th} in 2015-From aps senior secondary school
- 12^{th} in 2017-Same
- BCA in 2023-Same
- MCA in 2025-From SGTB Khalsa College an autonomous College

Hobbies:

- Cycling(60km)
- Singing
- Gaming

Strengths:

- Problem-solving
- Team collaboration
- Learner