SHOURYA SAXENA

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SUMMARY

Junior programmer with proven skills in C++, Python, HTML, CSS and Javascript. Eager to leverage these skills in real-world projects. Demonstrated proficiency through academic projects in Movie Recommendation System and Emotion Detection and Sentimental Analysis. Highly motivated and a quick learner, adept at grasping new concepts and technologies.

EDUCATION

B.Tech in Computer Science and Engineering Graduating : May 2026
VIT Bhopal University, Kothri Kalan, Madhya Pradesh : 8.3 GPA
XII (CBSE) : 91.2%
X (CBSE) : 86.4%

TECHNICAL SKILLS

Design and Modeling Tools: MATLAB, Microsoft Office,Jupyter,Visual Studio Code &Figma

Programming: Python, C, C++,HTML, CSS, JavaScript

Data Structures and Algorithm: Continuously developing the knowledge in data structures (e.g., trees, graphs, hash tables) and algorithms (e.g., sorting, searching) for efficient problem-solving.

Other Skills: Communication, Teamwork, Problem-Solving

CREATIVE SKILLS

Graphic Design: Basic proficiency in design tools like Canva for creating presentations, social media graphics, etc.

PROJECTS   August 2023 – October 2023

Movie Recommendation System
Collaborated in a team of three to design KNN and Cosine Similarity-based movie recommendation system alongside two teammates.

- Designed and implemented a bimodal recommendation system that uses both collaborative filtering and content-based filtering techniques, resulting in a 20% improvement in recommendation accuracy.
- Cleaned and preprocessed data by:
    1. Identifying and removing redundant information.
    2. Defining functions to convert and format text data consistently (e.g., genre lists, cast lists, director extraction).
    3. Handling missing values (NaN).
- Visualized the cleaned data using histograms, bar charts, and pie charts to understand genre distribution.

Emotion Detection and Sentiment Analysis   March 2024- May 2024
Led team of three to design and develop a mouse-like device to allow quadriplegic patients to use websites.

- Implemented a CNN model with multiple convolutional and pooling layers for feature extraction from facial images.
- Integrated Haar cascades for face detection within video frames captured by the webcam.
- Designed the system to capture live video feed, detect faces, predict emotions using the trained CNN, and display results.
- Authored extensive testing and validation of the model using diverse datasets, achieving an accuracy rate of over 90% in emotion recognition.