

AISHANI SINGH

+91-7657901868 singhaishani2003@gmail.com linkedin Github

Experience

Full Stack Developer Intern

July 2020 – August 2020

Duke Infosys, Chandigarh, India

- Engineered a hospital management system to streamline patient appointment scheduling and medical record management.
- Implemented patient registration, appointment booking, and user authentication using HTML, CSS, PHP, and SQL.
- Built a movie recommender system using collaborative filtering and K-Nearest Neighbors (KNN) algorithm. Analyzed user ratings and preferences with Python, Pandas, and NumPy, achieving 92% recommendation accuracy.

Education

Amity University Punjab

2022 – 2026

Bachelor of Technology in Computer Science; CGPA:7.34

Mohali, Punjab

Govt. Model School, Sector 32

2021 – 2022

CBSE XII Boards-82%

Chandigarh, Punjab

D.A.V. Senior Secondary Public School

2019 – 2020

CBSE X Boards-87%

Panchkula, Haryana

Publications

Quantum-Based Healthcare IoT

Accepted – To Appear

International Conference on Computer Science and Artificial Intelligence (ICCSAI) Galgotias University, Greater Noida, India

- Singh, A., Singh, S., Kaushal, S. “Quantum-Based Healthcare IoT.” Presented at ICCSAI, focusing on integrating quantum principles with IoT to enhance healthcare monitoring and diagnostics.

Projects

Deepfake Detection | Research Project

April 2025

- Built a deep learning-based system to detect deepfake videos by analyzing both visual and audio cues.
- Utilized Convolutional Neural Networks (CNNs) for facial frame analysis and integrated audio forensics for voice consistency checks.
- Preprocessed video inputs into frames and audio into spectrograms for dual-modality analysis.
- Trained and evaluated the model, achieving 90% accuracy and an AUC-ROC score of 0.92 on benchmark datasets.

Smart Proctoring System | Minor Project

March 2025

- Developed an AI-based proctoring system integrating facial recognition and behavioral monitoring using computer vision and full-stack web technologies.
- Implemented real-time facial detection and identity verification using Dlib and the face_recognition library. Built a responsive web interface with HTML, CSS, and JavaScript, connected via a Flask backend.
- Designed and integrated interactive UI components using a custom layout editor to enable seamless transitions between proctoring views and session controls.

Technical Skills

Programming Languages: Python, C++, C

Web Technologies: HTML, CSS, SQL

Libraries/Frameworks: Flask, React, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Dlib, face_recognition, Bootstrap

Databases: MySQL, phpMyAdmin

Tools: Git, Gradio, WebRTC, Jupyter Notebook, Google Colab, VS Code

Technologies: Machine Learning, Web Development, REST APIs, Recommendation Systems, AI-based Applications, Data Analysis

Achievements

4th Place, TiE University App-Athon | Amity University Punjab

2022

- * Outranked 20+ teams for innovative app development, demonstrating technical skills and creativity.

2nd Place, Ideathon | Amity University Punjab

2023

- * Developed a unique idea, showcasing creativity, teamwork, and problem-solving abilities.

Extracurricular and Leardership

Event Organizer <i>The Technometer Club</i>	2024 – Present
* Coordinated 5+ technical workshops for 100+ students, boosting skill development and engagement.	
* Led a 10-member team to implement a skill-sharing program, increasing participation by 20%.	
Student Placement Representative <i>Amity University Punjab</i>	2025 – Present
* Coordinated placement activities, improving career opportunities for students by liaising with recruiters.	