

# SHREY SINGH

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## EDUCATION

|             |   |                 |
|-------------|---|-----------------|
| 2022 - 2026 | B.Tech at Manipal Institute of Technology | CGPA: 8.18/10.0 |
| 2022        | Class XII Board Exam CBSE                 | 91.2 %          |
| 2020        | Class X Board Exam CBSE                   | 93.4 %          |

## TECHNICAL SKILLS

|                          |   |
|--------------------------|---|
| Programming Languages    | <b>Proficient:</b> C, C++, HTML, Python, SQL.<br><b>Familiar:</b> Java, CSS, Javascript, Flutter. |
| Software                 | Github, AutoCAD, Microsoft Excel, Visual Studio Code.   |
| Libraries and Frameworks | Pandas, Matplotlib, Scikit-learn, NumPy, Seaborn, OpenCV, Pillow, MediaPipe, Tkinter, TensorFlow. |

## PROJECTS

### Fearless: Social Media App to Get Over Your Fears (2024)

**Tech Stack:** Flutter, Firebase, JavaScript, HTML, CSS

- Sends daily challenges at 00:00 hours using a time-based job scheduler and local push notifications.
- Allows recording and posting videos under 1 minute, compresses to MP4 with AAC, VP8/VP9, and h264.
- Backend: Cloud storage for videos, User DB (user ID, username, email), Posts DB (post ID, video link, likes, comments).
- Designed a landing page with 51 pre-registered users.

### Personalised Quote Generator (2023)

**Tech Stack:** Python, Flask, Hugging Face Transformers, TensorFlow, HTML, CSS

- Created a virtual assistant using natural language processing (NLP) to generate personalized philosophical quotes.
- Implemented a Flask backend to handle user inputs, process them using GPT2 model, and generate personalized quotes.
- Designed a user-friendly interface with HTML/CSS for inputting problems and displaying personalized solution quotes.

### Automated Document Scanner (2024)

**Tech Stack:** Python, Flask, OpenCV, HTML, CSS, JavaScript, AWS

- Developed a web application to automate document scanning and digitization processes.
- Implemented document detection, edge detection, and perspective transformation using OpenCV.
- Created a user-friendly interface with HTML, CSS, and JavaScript for easy file uploads and displaying processed images.
- Utilized Flask to manage backend logic for image processing and transformations.
- Deployed the application on AWS at for scalability.

## EXPERIENCE

**Research Assistant** October 2023 - July 2024

- Developed a cost-effective gait analysis solution for initial assessments of mobility issues in rural areas.
- Designed and implemented a user-friendly interface using Tkinter.
- Integrated real-time video processing with OpenCV and pose detection with MediaPipe.

**ISTE Management Committee** August 2023 - June 2024

- Organized a multi-day tech fest, AURORA, at our college.
- Featured Mr. Dale Vaz, Former CTO at Swiggy, and Director at Amazon, as the guest speaker.
- Hosted multiple workshops attended by hundreds of students, covering various industry trends.

## COURSE WORK

|                  |  |
|------------------|--|
| Computer Science | Data Structures and Algorithms*, Database Management Systems*, Object Oriented Programming*, Operating Systems |
| AI and ML        | Introduction to Data Analysis, Artificial Intelligence*  |
| Mathematics      | Linear Algebra and Logic, Probability And Optimization   |

(\* courses with laboratory component)

## OTHER

|                        |   |
|------------------------|---|
| Leadership Roles:      | Class Representative for 3rd and 4th Semester.  |
| Technical Achievements | Proficient with five stars in C, C++ and Python on <a href="#">HackerRank</a> . Competetive Rating of 723 on <a href="#">CodeForces</a> . Achieved top 30 at the M# Manipal Hackathon (170+ teams). |
| Soft Skills            | Problem solving, Team Management, Conflict Resolution.  |