MANPREET KOUR

2K22/IT/102
Bachelor of Technology
In Information Technology
Delhi Technological University, New Delhi

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EDUCATION

B.TECH(Information Technology)	2022-2026	Delhi Technological University, New Delhi	9.22 CGPA (Till 3rd Sem)
J&K Board (Class XII)	2022	Shiksha Niketan Sr. Sec. School, Jammu	99.6 %
J&K Board (Class X)	2020	Shiksha Niketan Sr. Sec. School, Jammu	96.4 %

INTERNSHIPS

Research Intern, Artificial Intelligence and Machine Learning Society, DTU   (Jun 2024 - July 2024)
- Currently working on enhancing seafloor habitat mapping using deep learning and hyperspectral imagery
- Utilizing Mask R-CNN with Panoptic FPN for substrate segmentation and species analysis

USIP Intern, Software Engineering Department, DTU   (Sep 2023 - Nov 2023)
- Led coordination and confidential data management, ensuring efficient project milestone completion in collaboration with the Head of Department.
- Streamlined project workflows, demonstrating precision and dedication to data security and organization.

PROJECTS

Lane Detection System using *OpenCV* –*[GitHub]*
- O Created a Lane Tracker for an AI-Driven Car, utilizing OpenCV, NumPy, and other technologies for advanced computer vision capabilities
- O Incorporated Haar cascades & Canny edge detection with Hough transform
- O Integrated real-time date-time stamping and car detection functionalities for enhanced video processing.

Face Recognition *Using OpenCv,YoloV8 – [GitHub]*
- O Implemented a face recognition algorithm using YOLOv8 for face detection and OpenCV for video processing, enabling real-time face identification.
- O Developed code to read video files, detect faces in each frame with the YOLO model, and display videos with bounding boxes around detected faces.

Keeper App *Using React Framework – [GitHub]*
- O Developed the Keeper App using the React framework, allowing users to create, view, & delete important notes
- O Designed a user-friendly interface with efficient state management to ensure a seamless note-taking experience

SKILLS

- **Core Courses** : Data Structures & Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Organization and Architecture, Digital Electronics
- **Extra Courses :** Web Development, Machine Learning, Deep Learning, Computer Vision, OpenCV
- **Programming Languages :** C, C++, Python, HTML, CSS, JavaScript
- **Databases :** MySQL, Oracle, Postgress
- **Tools & Frameworks :** OpenCV, NumPy, Pandas, Matplotlib, YOLOv8, TensorFlow, Keras, React

ACHIEVEMENTS

- Selected to represent DTU at the **Smart India Hackathon** 2023
- Secured the top position in the 12th-grade examinations, earning the title of **Jammu State Topper**
- Excelled in multiple school and district-level debate competitions and showcased strong skills in stage hosting.
- Solved **250+** problems overall on **Leetcode** & **GeeksforGeeks**

POSITIONS OF RESPONSIBILITY

- **Technical Head**, Society of Robotics-DTU   (July 2024- Present)
  - O Pioneered the proposal and presentation of Sewage Cleaning Bots (**SuperHuman Robotics**), an AI-powered autonomous robot designed for sewage cleaning, targeting startup ventures.
- **Member**, IEEE-DTU (Technical Society)   (June 2023- July 2024)
  - O Contributed to frontend development of the **Vihaan007 Hackathon Website**, enhancing responsive design and user engagement