Pranav Jain

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EDUCATION

B.E - Thapar Institute of Engineering and Technology - Computer Science **2022 – 2026**
Expected in 2026 - ***CGPA - 9.42*** *Patiala, India*

EXPERIENCE

Samsung R&D Institute India, Bangalore **Oct 2024 – Mar 2025**
Research Intern — Led project automation, frontend development, and partial backend integration

- Automated image evaluation for Galaxy Enhance-X vs. Picsart, Snapseed.
- Applied image processing to detect fine details and improve accuracy.
- Reduced human bias by 30% using a hybrid objective-subjective approach.

PROJECTS

Image Quality Evaluation System | Appium, Django, Image Processing **Oct 2024 – Mar 2025**

- Developed an automated image evaluation pipeline to compare Galaxy Enhance-X with commercial apps like Picsart and Snapseed.
- Engineered a hybrid objective-subjective model to evaluate image quality, reducing human bias by over 30%.
- Leveraged OpenCV and image processing techniques to identify fine-grained visual improvements and enhance evaluation accuracy.

Topsis Package | Python, Pandas, NumPy **Jan 2025 – Feb 2025**

- Developed a Python package for multi-criteria decision-making using the TOPSIS method.
- Built a Flask-based web interface for user-friendly input and result visualization.
- Integrated an email system to automatically send evaluation results to users.
- Published on PyPI with CLI and script support, ensuring robust error handling.

AID Bridge NGO | HTML, CSS, JavaScript, Node.js, MongoDB, ReactJS **Sept 2024 – Dec 2024**

- Developed a full-stack web platform to streamline NGO donations with category-wise options.
- Designed dashboards for both donors and NGOs to enable real-time donation tracking and record management.
- Led frontend and automation tasks; contributed to backend logic and database integration using Node.js and MongoDB.

Calorie Detection System | YOLOv5, LabelImg, OCR & Flask **Oct 2024 – Nov 2024**

- Designed an automated calorie detection system using YOLOv5 for object detection and EasyOCR for text recognition, achieving 60% accuracy in extracting calorie information from food labels.
- Built a Flask-based web interface with OpenCV-enhanced image preprocessing for real-time calorie detection and user-friendly interaction.

TECHNICAL SKILLS

Languages: C, C++, Python, R, JavaScript, SQL, LaTeX
Tools & Technologies: Arduino Programming, Opengl, OpenCV
Developer Tools: VS Code, Arduino IDE, Oracle Live SQL, Kaggle

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Database Management System (DBMS)
- Artificial Intelligence
- OOPS
- Data Science
- CAO
- Machine Learning
- Web Development

EXTRACURRICULAR

∗ Coordinated faculty communication as Group Representative, leading to a 50% improvement in subgroup project submission rates.

ACHIEVEMENTS

∗ **Consecutively awarded the Thapar Merit Scholarship for 2023-2024 and 2024-2025.**
∗ **Solved 250+ DSA Questions on leetcode, GFG & Coding Ninja.**