Vansh Kansal

Bathinda, Punjab, India
+91-9988227835 vanshkansal5@gmail.com LinkedIn GitHub

EDUCATION

Thapar Institute of Engineering and Technology - Computer Science **2022 – 2026(expected)**
Excepted in 2026 - ***CGPA - 8.27*** *Patiala, India*

EXPERIENCE

Medlr Solutions Private Limited, Chandigarh **June 2025 – July 2025**
Flutter Intern

- Built and refined 15+ cross-platform UI components for the CampusConnect mobile app using Flutter, contributing to a smoother and more intuitive user experience.
- Collaborated within a 2-member Flutter team as part of a 6-person cross-functional group (backend, data science), under the guidance of a technical lead.
- Optimized app performance and ensured responsive design across Android and iOS.

PROJECTS

AidBridge | HTML, CSS, JavaScript, Node.js, Express.js , MongoDB **Oct 2024 – Nov 2024**

- Built a full-stack web app — AidBridge — to enable students in hostels to donate and request unused medicines, reducing waste and improving peer-to-peer access to essential supplies.
- Developed the frontend using Angular.js and implemented a RESTful backend with Node.js, Express.js, and MongoDB to support medicine listings, search, and request workflows.
- Integrated role-based authentication, real-time medicine status updates, and donor-request tracking to streamline campus-wide medicine exchange securely and efficiently.

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.
- Implemented regex-based post-processing with fallback OCR to enhance robustness and ensure reliable calorie value extraction.

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

- Built and published a Python package for multi-criteria decision-making using the TOPSIS algorithm, enabling objective ranking of alternatives based on weighted positive and negative criteria.
- Implemented end-to-end support for both CLI and Python script usage, with comprehensive input validation, argument parsing, and user error handling for robust usability.
- Released on PyPI as `Topsis-Vansh-102203021`, supporting easy installation via `pip` and used by 50+ users for academic and analytical decision scenarios.

TECHNICAL SKILLS

Languages: C, C++, Python , React
Frameworks & Database: Flutter, Node.js, Express.js, MongoDB, SQL
Tools & Technologies: Git, REST APIs
Developer Tools: VS Code, GitHub, Jupyter Notebook

ACHIEVEMENTS

- **Awarded the Thapar Merit Scholarship for 2022-2023.**
- **Solved 200+ coding problems on platforms like LeetCode, Coding Ninja and Gfg.**