Harsh Kadikar

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Skills

Languages: C++, C, Python, SQL, JavaScript, HTML

Deep Learning(basics): Understanding of CNNs and how YOLO works (replaced with lightweight detection using OpenCV)

Tools/Platforms: Jupyter Notebook, Google Colab, VS Code, Flask (ML deployment), Streamlit (for ML app UI)

Model Deployment: Flask API Integration, Real-Time Prediction Pipelines, Lightweight ML Applications

Frontend: HTML, CSS, React JS, GSAP(Green Shock Animation Platform)

Education

LDRP Institue of technology and Research, BE in Information Technology June 2022 – Present

- GPA: 7.52(till 6th sem)
- **Coursework:** Object Oriented Programming, DBMS, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Advanced Java Programming, Design and Analysis of Algorithm, Software Engineering, Theory of Computation, Artificial Intelligence, Machine Learning, Cryptography and Network Security, Blockchain Technology, Cloud Computing

Projects

Movie Recommendation System LINK

- Created a personalized movie recommendation engine using content-based filtering. Users receive suggestions based on genre, preferences, and similarity scoring. Presented results with a clean interface and seamless user interaction.
- Technologies Used: Python, Pandas, Scikit-learn, NumPy, Cosine Similarity, Streamlit / Flask, Google Colab, VS Code

Tribal Assistance Portal - SSIP'23 Finals LINK

- Developed a speech-based government schemes portal for tribal citizens to submit and monitor scheme applications. Provided bank officials with the capability to check documents, approve/reject applications, and send email notifications with comments.
- Tech Used: PHP, MySQL, JavaScript, PHP Mailer, Voice-to-Text, Apache Server
- How it works: Real-time dashboard, document sharing through email, rejections on the basis of reasons, voice-led form filling, and future money-making plan (priority forms).

License Plate Recognition System LINK

- Engineered a real-time License Plate Recognition (LPR) system using OpenCV and Tesseract OCR. The solution replaced YOLO with a custom lightweight detection pipeline using grayscale conversion, adaptive thresholding, and contour detection. Also developed a Movie Recommendation System using content-based filtering techniques with Pandas and cosine similarity, displaying personalized results via a clean Streamlit-based UI.
- Tech Used: Python, OpenCV, Tesseract OCR, EasyOCR, Flask, Jupyter Notebook, Google Colab, VS Code
- How it Works: Captures an image and uses OpenCV for plate detection, then applies OCR to extract alphanumeric characters. Supports multiple plates and real-time results without heavy models.

Organic Farming Marketplace LINK

- Developed a full-stack Organic Farming Marketplace to bridge the gap between verified farmers and conscious consumers. The platform featured QR-based product traceability, category filters, search and sort functionalities, cart and "Buy Now" options, reviews, and weight-based pricing. It also included GSAP animations and real-time verification tools to ensure transparency and enhance user experience.
- Tech Used: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, GSAP, JWT, QR code, Postman, Render

- How it Works: Users browse verified natural farm products with real-time traceability using QR codes. They can filter, review, and purchase items with weight-based pricing and a seamless cart system.

Certifications

- Finished NPTEL-certified course on Python for Data Science, acquiring basic data analysis, NumPy, and data visualization skills.
- Finalist in the SSIP Azadi Ka Amrit Mahotsav Hackathon in 2023.

Achievements

- Finalist – SSIP Hackathon 2023 (Student Startup and Innovation Policy): Selected among the top finalists from over 300+ teams for building a scalable Natural Farming Marketplace. Recognized for innovation, social impact, and real-world applicability by government and industry experts.

Extra-curricular Activities

- Participated in various college-level tech fests, coding competitions, and team-based project sprints.
- Logo Designing, Editing
- Exploring AI and computer vision applications through hands-on projects and real-world problem solving.