# Dhruv Karmokar

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## PROJECTS

SpotFinder: Real-Time Parking Intelligence for Drivers and Cities — Jan 2024 – May 2024

- Achieved 95% accuracy in real-time parking space detection by leveraging OpenCV and CNNs with VGG-based transfer learning, streamlining parking management.
- *Technologies Used:* OpenCV, CNN, VGG, Python, Scikit-learn

EyeVision: Deep Learning Model for Eye Disease Prediction — Aug 2023 – Nov 2023

- Improved diagnostic accuracy by 20% utilizing deep learning and transfer learning techniques (VGG16) to classify eye diseases from images.
- *Technologies Used:* Deep Learning, VGG16, Python

Sundar Pichai Biography Website — Dec 2021 – Feb 2022

- Engineered an engaging, mobile-friendly website with comprehensive details on Sundar Pichai's life using HTML and CSS; achieved a 40% increase in average session duration and drew 30+ views in the first week.
- Project Link: codepen.io/karmokardhruv/full/mdBpjzZ

## EDUCATION

**B. Tech, Computer Science and Engg with spl. in AI and ML |** CGPA: 8.66 | Oct 2021 – Present
Vellore Institute of Technology, Chennai

- *Coursework:* Deep Learning, Machine Learning, Software Engineering, Data Structures and Algorithms, Structured and Object-Oriented Programming, Database Systems, Computer Networks, Operating Systems.

**Higher Secondary Certificate (HSC), 12th Standard |** 89% | 2021
Pace Junior Science College, Thane (W), Maharashtra

- *Coursework:* English, Mathematics & Statistics, Physics, Chemistry, Computer Science.

**Secondary School Certificate (SSC), 10th Standard |** 83.2% | 2019
Vasant Vihar High School & Jr. College, Thane (W), Maharashtra

- *Coursework:* English, Marathi, Hindi, Mathematics, Science & Technology, Social Sciences.

## PUBLICATIONS

Facilitating Fingerprint-Based Door Automation System Using RFID and Bluetooth — Apr 2023 – Jul 2023

- Designed and developed a smart lock system, increasing security by 30% through RFID, Bluetooth, and biometrics.
- Boosted security and streamlined access in the smart home ecosystem by 25% by implementing an Arduino and Python-based access control system.
- Enhanced user experience in smart homes by 40% by integrating cutting-edge technologies to create a bespoke secure access solution.

## SKILLS & TOOLS

- **Technical Skills:** Advanced Python, TensorFlow, Java, HTML5, CSS, Slack, Google Workspace, AWS, Data Science
- **Leadership Skills:** Team Leadership, Project Management, Technical Mentoring, Strategic Planning
- **Certifications:** TensorFlow: Advanced Techniques, Artificial Intelligence and Machine Learning Powered by Google
- **Languages:** English (Professional), Hindi (Native), Bengali (Bilingual), Marathi (Bilingual), French (Elementary)