

Harsh Sukhadia

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EDUCATION

Laurentian University — Sudbury, Ontario, Canada
Master of Science in Computational Science

Sep 2024 – Jan 2026

Sardar Vallabhbhai Patel Institute of Technology — Vasad, India
Bachelor of Engineering in Computer Engineering

Aug 2019 – May 2023

SKILLS

Certifications: AI Mentor (Intel), OpenCV Bootcamp, MATLAB Onramp, Intro. to DSA, Intro. To Data Science (Cisco), ML in Cybersecurity, Data Science Essentials with Python (Cisco)

Technical skills: Python, Machine Learning (various Libraries), SQL (MySQL), JavaScript, PHP, Java, C, C++, Git, GitHub, GitLab, Linux, GCP, Laravel, React, WordPress, REST APIs, HTML, CSS

WORK EXPERIENCE

Perfecti.io | Software Developer Intern | Surrey, British Columbia

April 2026 – Present

- Built and shipped a production document-boundary splitter — LightGBM classifier with text encoder over 20 engineered features (OCR text similarity, page-number continuation rules, title/issuer-change detection) with English+French Tesseract OCR.
- Fine-tuned Qwen2.5-VL-7B with QLoRA, 4-bit NF4 quantization (bitsandbytes), LoRA adapters, class-balanced sampling — reaching F1 0.987 and 98% documents-exact (230/235) on a held-out 235-document benchmark.
- Built an automated mortgage document processing pipeline from scratch in Python that splits merged PDFs into individual documents and extracts government-issued ID pages (driver's licences, passports, health cards, etc) using OCR (Tesseract), barcode decoding (pyzbar), and computer vision (OpenCV)
- Prototyped visual document similarity approaches using deep learning embedding models (MobileNetV3, CLIP via PyTorch) and classical CV techniques (Gabor filters, HSV histograms) to evaluate OCR-free classification for health cards across 13 Canadian provinces

ISO Certification Consultants Inc. | Web Developer (Contract) | Niagara, Ontario

Mar 2026 – May 2026

- Designed, developed, and deployed a fully responsive WordPress website with custom plugin integrations and on-page SEO optimisation (meta tags, schema markup, image compression)
- Migrated the website from a local development environment to a live production server, ensuring data integrity and minimal downtime while independently managing all client requirements

Global Cleantech Directory | Software Engineer Intern | Richmond Hill, Ontario

Oct 2025 – Dec 2025

- Researched and evaluated LLM architectures to identify optimal models for chatbot development, then designed and implemented a scalable system to deploy and maintain the AI chatbot
- Integrated LLM-based components to enhance chatbot accuracy, response quality, and user experience

Ethics Infotech LLP | Associate Software Engineer | Gujarat, India

Mar 2023 – Aug 2024

- Developed and delivered optimised, scalable, production-ready applications using PHP (Core MVC and Laravel framework) within an Agile SDLC, contributing to sprint planning, daily stand-ups, code reviews, and retrospectives to ship features iteratively across multiple client engagements
- Designed, developed, and tested backend REST APIs using PHP and Laravel, validating endpoints, building reusable request collections, and documenting request/response payloads in Postman to enable reliable data exchange and seamless integration with frontend application teams
- Developed WordPress websites using custom plugin configurations and a React-based POS system for retail chains

Intel Corporation | AI For Youth Mentor | Remote

Jul 2022 – Mar 2023

- Mentored students in AI/ML through bootcamps and workshops covering NLP, Computer Vision, and Data Visualisation, topics in collaboration with Jayso Foundation and Intel

- Invited to various national events organised by Intel and the Government of India (Delhi and Bangalore), guiding multiple teams in building ML projects addressing real-world social problems

Ethics Infotech LLP | PHP Developer Intern | Gujarat, India

Jul 2022 – Nov 2022

- Built a dynamic admin panel using PHP, Bootstrap 5, and JavaScript for managing website content, and developed a full CRUD application with file and image upload functionality

ACADEMIC PROJECTS

Real-Time Vehicle Speed Monitoring System

- Built a computer vision pipeline using OpenCV and YOLO to detect, track, and estimate vehicle speeds in real time, covering frame extraction, object detection, contour analysis, and motion tracking

Heart Disease Prediction System

- Trained a Keras neural network on Kaggle data for heart disease classification, using NumPy, Pandas, Matplotlib, and Seaborn for preprocessing, feature engineering, and performance visualisation

Dynamic QR Code Generator

- Developed a dynamic QR code generator in PHP using Composer-managed libraries with a JavaScript/HTML/CSS frontend for real-time code generation

Portfolio & Catering Service Websites

- Built fully responsive websites using HTML5, CSS3, and JavaScript with a custom PHP/MySQL CMS admin dashboard for dynamic content editing