**Aarsh Prajapati**

**AI & Full-Stack Engineer | LLM Applications | Web & Cloud Integration**

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## EDUCATION

**PG Certificate, Artificial Intelligence & Machine Learning, Humber College**          January 2025 – September 2025

Relevant Courses: Machine Learning, Deep Learning, Computer Vision, NLP, Data Science, MLOps, Cloud AI Systems

**PG Certificate, Mobile Application Development, Canadore College**          May 2024 - December 2024

Relevant Courses: Full-Stack Development, REST APIs, Databases, Software Engineering, UI/UX, Cloud Deployment

## TECHNICAL SKILLS

- **Machine Learning & AI:** Machine Learning, Deep Learning, Computer Vision, NLP, Time-Series, Generative AI
- **Frameworks:** PyTorch, TensorFlow, scikit-learn, OpenCV, Pandas, NumPy
- **Programming:** Python, JavaScript, TypeScript, SQL, Java, C++
- **Backend & APIs**: FastAPI, Flask, Node.js, Express, REST APIs
- **Cloud & MLOps: AWS**, Azure, Docker, Kubernetes, CI/CD, GitHub Actions
- **Data & Analytics**: ETL pipelines, SQL optimization, Power BI, Tableau
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis

## WORK EXPERIENCE

**AI / Machine Learning Engineer (Industry Capstone), Gokaddal (Industry Partner – Humber College) Jan 2025 – Apr 2025**

- Built and deployed a production-oriented computer vision system end-to-end (data prep → training → deployment).
- Trained deep learning models on large-scale video datasets, achieving 90%+ accuracy.
- Optimized models using quantization and lightweight architectures for edge deployment.
- Collaborated with industry mentors to meet performance, latency, and reliability benchmarks.

**Software Developer, *Niche Teach Computer Solution Pvt Ltd, Ahmedabad, India*          Apr 2022 – March 2023**

- Developed full-stack web applications using ASP.NET MVC5, JavaScript, and Bootstrap.
- Designed and launched Poll4U, a real-time polling and analytics platform.
- Built REST APIs and optimized database queries to improve performance and scalability.
- Worked in agile teams following professional engineering practices (code reviews, version control).

## RELEVANT PROJECTS

**Driver Drowsiness & Distraction Detection System – Humber College**

- Built a real-time driver monitoring system using MobileNetV2 + LSTM and YOLOv5.
- Achieved 90%+ accuracy on large, annotated video datasets.
- Reduced inference latency by 25% using OpenCV and TensorFlow Lite.
- Integrated models into telematics workflows under real-world constraints.

**AI resume & Cover letter builder (GenAI SaaS)**

- Built a full-stack Generative AI platform using React, Node.js, MongoDB, OpenAI APIs.
- Implemented secure, scalable backend services with authentication and caching.
- Automated NLP workflows using n8n for document parsing and prompt orchestration.
- Designed cloud-ready, monetization-friendly architecture.
- **Live Demo: - https://resume-maker-fullstack.vercel.app/**

## Certificates & Achievements

- **Google Cloud Fundamentals: Core Infrastructure – Coursera**
- **Machine Learning Specialization (Andrew Ng) – DeepLearning.AI**
- **Generative AI with LLMs – DeepLearning.AI and AWS**
- **MLOps – Duke University**
- **Presented at Humber Capstone Expo 2025, recognized among Top Innovative AI Projects**