

## PROFESSIONAL EXPERIENCE



### i2V Systems

November 2024 – Present

Computer Vision Engineer

- Built a natural language search system for surveillance (VMS) and synthetic data pipelines using ControlNet, generative in-painting, and image composition.
- Developed multi-task Person Re-ID and Attribute Recognition models with auto-cleaned datasets; exported to ONNX and OpenVINO for optimized edge deployment on NVIDIA Jetson.
- Created a fully automated training pipeline: video → keyframe extraction → auto-annotation → CVAT upload → webhook-triggered model training — saving 2–3 hours of manual effort per cycle.



### Warewe Consultancy

August 2023 – October 2024

Associate → Senior ML Developer

- Led end-to-end development of an AI video platform, **Shotify.ai**, for automated short-form content generation and publishing across YouTube, Instagram, and TikTok — integrating multimodal AI models and REST APIs.
- Built and deployed multiple GenAI products: **Paperbot.AI** (automated blog writing with Whisper, Langchain, GPT-4), and **Serpwe.com** (RAG backend with Neo4j and GTE/BGE embeddings).
- Fine-tuned LLaMA-2/3 with PEFT-LoRA for SEO tasks; developed image classifiers (Midjourney V6) and generative pipelines using Dreambooth, SAM + Stable Diffusion, and FLUX.



### Personal & Freelance Projects


- Built GenAI tools include a blog generator (CrewAI + Perplexity SONAR) and **Redserp**, with automated Reddit tracking for trends, topics, and product mentions.
- Built a backend for an e-commerce **package protection system** using Django REST Framework and Django Ninja, handling coverage logic, claims, and policy management with clean, modular APIs.
- Developed full-stack solutions: Real Estate ERP module in Odoo and GA4 → AWS QuickSight pipeline for real-time analytics.


## SKILLS


- Languages:** Python, JavaScript (Next.js)
- AI/ML:** PyTorch, TensorFlow, Keras, OpenCV, RAPIDS
- GenAI & LLMs:** OpenAI, Langchain, CrewAI, Vertex AI
- Deep Learning:** CNN, LSTM, Diffusion Models, ControlNet, LoRA
- Data & Analytics:** Pandas, NumPy, AWS QuickSight, Matplotlib
- Backend:** FastAPI, Django, Flask, Odoo
- Databases & APIs:** SQL, Neo4j, REST, JSON
- Cloud & Deployment:** AWS EC2, Lambda; GCP VM, Cloud Run
- Tools:** Git, Docker, Jupyter, DVC

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## SUMMARY

Machine Learning Developer with deep expertise in Generative AI, Computer Vision, Graph Databases, and Natural Language Processing (NLP). Demonstrated success in leading AI-driven projects that combine data analytics and automation to enhance innovation and efficiency. Skilled in developing proof-of-concepts and production-ready ML solutions for content generation, semantic search, and data analysis using modern AI frameworks and tools.



## ACADEMIC DETAILS

### Master of Computer Applications (M.C.A.) ,

Graphic Era University (ODL)

Expected June 2025

### Bachelor of Computer Applications (B.C.A.) ,

Graphic Era University, Haldwani

August 2020 - June 2023

Winner of Navikarnam 2023: National Level Innovation and Entrepreneurial Fest organized at NIT, UK.

Annual Topper's Award & Achiever's Award (2021/22/23).

Published various patents;

Featured in Campus Gems.

### Coursera

**Google Data Analytics Professional Certificate**, Google

**Machine Learning Specialization**, DeepLearning.AI

**Deep Learning Specialization**, DeepLearning.AI

**Machine Learning on Google Cloud Specialization**, Google Cloud