Deepankar Sharma

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PROFESSIONAL EXPERIENCE

i2V Systems
Computer Vision Engineer
November 2024 – Present

- 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
Associate → Senior ML Developer
August 2023 – October 2024

- 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

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*

Gold Medalist; 9.4 SGPA
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*