Deepankar Sharma

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SUMMARY

Machine Learning Developer with extensive experience in **Generative AI**, **Computer Vision**, **Graph Databases**, and **NLP**. Proven track record in leading projects that integrate AI and data analytics to drive innovation and efficiency. Skilled in developing **proof-of-concepts** & automated solutions for content creation and data analysis, leveraging cutting-edge technologies and frameworks.

PROFESSIONAL EXPERIENCE

i2V Systems
Computer Vision Engineer
November 2024 – Present

- Built an **AI-powered natural language search** for surveillance systems, enabling efficient event retrieval in VMS. Developed synthetic data pipelines using **ControlNet, generative in-painting**, **and generative image composition** for dataset creation. Built and optimized **Person Re-ID & Attribute Recognition models with multi-task learning**, data augmentation, and semi-automated data cleaning, improving robustness and generalization. Enhanced deep learning models for edge deployment, optimizing performance and resource efficiency. Helped deployment of real-time AI pipelines on NVIDIA Jetson & Intel OpenVINO for event recognition.

Warewe Consultancy
Senior Software Developer: Machine Learning
September 2024 – October 2024

- **Shotify.ai:** Led the end-to-end development of an AI-driven platform to generate and post short-form videos on YouTube, Instagram, and TikTok. Designed RESTful API backends, integrated advanced AI models for automated video generation, and delivered a proof of concept projected to boost user engagement by 40%.

Warewe Consultancy
Associate Software Developer: Machine Learning
August 2023 – August 2024

- **Optimized LLaMA-2/3** with **PEFT-LoRA** for **SEO enhancement** and fine-tuned an AI image classifier (Midjourney V6). Developed **Paperbot.AI**, an **automated blog writing** SaaS using **Whisper, Langchain, and Crew AI**. Built AI-driven content creation tools with **Dreambooth & LoRA** for enhanced photoshoots. Designed **RAG backends** for **Serpwe**, integrating **GTE/BGE embeddings** and **Neo4j** for knowledge graphs. Developed **image segmentation & reconstruction** applications using **SAM & stable diffusion & FLUX**.

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*

SKILLS

Generative AI: Langchain, Vertex AI, RAG, CrewAI
Frameworks: TensorFlow-Keras, PyTorch, OpenCV, CUML, RAPIDS
Data Analysis: Pandas, NumPy, Matplotlib, RAPIDS, AWS Quicksight
Deep Learning: ANN, CNN, LSTM, LLMs, Diffusion Models, Control Nets
Backend Development: Django, Flask, FastAPI, Odoo, Node.js
Database & APIs: SQL, JSON, REST API, Neo4j, SQLite
Tools: Jupyter Notebook, Git, Docker, DVC
Programming Languages: Python, Next.js

PERSONAL/FREELANCE PROJECTS

ERP Module for Real Estate: Developed a comprehensive ERP module including invoices, custom drafts, and a floor stacking plan, showcasing skills in **clean code** and **architecture**.
AWS QuickSight Integration: Connected AWS QuickSight with GA4 data to create reports and dashboards, emphasizing **cloud** and **data analysis** expertise.
Automatic Blog Writer: Created an automatic blog writer using Crew AI, Perplexity Llama3 API for research, GPT-4, and Langchain for formatting.
Web Scrapers: Built web scrapers for YouTube and Pinterest using **Python**.
Fashion Product Recommendation System: Developed a recommendation system (Project Link).
Movie Recommendation System: Created a movie recommendation system (Project Link).
Chicken Disease Classification: Worked on disease classification using fecal images (Project Link), demonstrating **deep learning** and **computer vision**.
Text Summarization: Implemented text summarization using pegasus-cnn_dailymail (Project Link).
Conversational Text Generator: Created a text generator using GRU-RNN (Project Link).
Smart Surveillance: Developed a smart surveillance system with computer vision (Project Link), applying **machine learning** techniques.