

Shashank Vaidya

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PROFESSIONAL EXPERIENCE

Gen. AI Intern - Avanci (MV Group)

Sept 2024 – Mar 2025

Tech: PyTorch, LangGraph, Hugging Face, Chroma DB, Streamlit, GCP

- Automated marketing content creation using AI to generate realistic backgrounds for product images and inpaint people into scenes via Stable Diffusion, Claid API, and FLUX 1.1 Pro API, enhancing visual realism.
- Designed an image processing pipeline with automated metadata synchronization, utilizing GCP buckets for scalable storage and real-time updates to maintain a dynamic image bank for an e-commerce client.
- Utilized LangGraph to build stateful workflows for dynamic generation and customization of marketing text, integrating GPT-4o with Chroma DB and RAG to replicate the tone of hand-written marketing emails and personalize content for campaign themes.
- Deployed a Streamlit application on an internal server, enabling non-technical users to generate marketing images and newsletters via an intuitive interface, reducing content creation time by 80%.

Jr. Python Developer - CIS Inc.

Feb 2022 – Jan 2023

Tech: Django, TensorFlow, PyTorch, OpenCV, scikit-learn, NLTK, spaCy, HuggingFace, YOLOv5, Docker, AWS, Git

- Developed and deployed machine learning models for NLP, computer vision, and recommendation systems within web applications, ensuring seamless integration and usability.
- Created an NLP pipeline to process PDF documents, used transfer learning and fine-tuned models, achieving 98% accuracy in information extraction, enabling automated topic-specific content generation.
- Implemented an object detection system to monitor conveyor belt operations, identifying potential risks and triggering real-time alerts to ensure operational safety.
- Built a recommendation system using LightFM to analyse user behaviour and provide personalized product suggestions, increasing sales conversions by 17%.

EDUCATION

MSc Data Science and Analytics EPITA, Paris

Mar 2023 – Mar 2025

Master of Computer Applications RGPV University, India

Aug 2020 – May 2022

Bachelor of Computer Applications Mediacaps University, India

Aug 2017 – May 2020

PROJECTS

Board Game Instruction Manual RAG Application

- Developed a Python RAG application for querying board game instruction manuals in PDF format.
- Used Langchain for data processing, ChromaDB for storage, and Ollama for LLM-based response generation, achieved 95% accuracy of retrieved information.

Morphing Attack Detection

- Developed a differential image based morphing attack detection algorithm, using InsightFace to extract facial representations and compute cosine difference based on similarity between facial features.
- Designed a CNN architecture to identify artifacts in images and trained an SVM model to classify attack and bonafide images based on the computed difference with an APCER of 0.21% and BPCER of 4.8%..

SKILLS

Technical Skills: NLP, LLMs, RAG, LangChain, LangGraph, PyTorch, TensorFlow /keras, FastAPI, Streamlit, Dataiku, Git, Chroma DB, GCP, AWS

Languages: English (Native/Bilingual); French (Intermediate); Hindi (Native/Bilingual)