Amodit Yadav

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EXPERIENCE

Summer Intern 06/2025 – 08/2025
Inadev India Hybrid, Noida

- Developed a multi-agent AI platform that delivers actionable business intelligence across recruitment, market analysis, and lead generation-built using LangGraph and powered by Google Gemini.
- Talent Scout Agent: Identifies and summarizes qualified candidates from publicly available sources.
- Company Intelligence Agent: Compiles reports on hiring trends, reputation, and competitive landscape.
- Executive Lead Generation Agent: Surfaces C-level prospects and provides context-rich insights to support outreach.

EDUCATION

B.Tech in Artificial Intelligence and Data Science - 8.21 CGPA (till current semester) 08/2023 – 06/2027
University School of Automation and Robotics, GGSIPU New Delhi

CBSE Class 12th PCM with CS 04/2010 – 04/2023
The Air Force School Subroto Park New Delhi

TECHNICAL SKILLS

Languages
Python, C/C++

AI/ML Libraries
PyTorch, LangChain, LangGraph, pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Monai

Developer Tools
Google Cloud Platform, VS Code, Git & GitHub, PyCharm, IntelliJ

Concepts
Machine Learning Fundamentals, RAG, Multi-Agent Systems, Data Structures & Algorithms, Deep Learning

PROJECTS

Trained and compared deep learning models for automatic 3D liver segmentation from CT scans
Python, PyTorch, MONAI, Gradio, HuggingFace Spaces

- Built and trained deep learning models for automatic **3D liver segmentation** from CT scans using annotated medical datasets
- Implemented and compared **U-Net (CNN baseline)** and **SwinUNETR (Vision Transformer)** architectures from scratch
- Designed full pipeline including **preprocessing, volumetric data handling, training, and evaluation (Dice/IoU metrics)**
- Demonstrated **superior contextual understanding and boundary accuracy** with transformers vs CNNs, analyzing memory and compute trade-offs
- Developed an **interactive demo** to visualize voxel-wise segmentation and compare model performance in real time

Jan-Contract: AI-Powered Legal Assistant
Python, LangChain, LangGraph, Streamlit, Google Gemini, FAISS

- Architected a multi-agent analytical pipeline using LangGraph to demystify complex legal documents, performing sequential summarization, key term extraction, and web-augmented enrichment via Tavily AI.
- Engineered a Retrieval-Augmented Generation (RAG) system with FAISS vector stores and FastEmbed to enable interactive, natural language Q&A sessions with user-uploaded documents.
- Developed a zero-shot LangChain agent powered by Google Gemini to convert informal, natural language requests into structured, formatted digital agreements in a downloadable PDF format.
- Integrated real-time voice interaction (Speech-to-Text/Text-to-Speech) and developed a video consent module using streamlit-webrtc to enhance accessibility and establish undeniable proof of assent.