Pennada Venkata Chaitanya

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Work Experience

- **Associate Software Engineer | Innocito**
  April 2025 - Present
  - Led research & development in Generative AI, focusing on NLP, CV & multimodal AI applications.
  - Built a real-time AI Voice Agent with conversational intelligence, reducing latency by **3 seconds per request** for more natural experiences.
  - **Tech Stack:** Python, Machine Learning, Deep Learning, Gen AI, Multimodal LLMs, PyTorch, NLP, Computer Vision.

- **AI Software Developer | Freelancing**
  March 2024 - February 2025   *1 Year*
  - **Client:** Hooman Digital
    * Fine-tuned AI agents for AI-powered social media, cutting manual task time by **30%** via automation and delivering ahead of schedule.
  - **Client:** Persist Ventures
    * Built a fully automated AI-powered GIF Studio, boosting **accuracy (95%), speed (5×), & user engagement (100×)**.
  - **Client:** AI Gen media
    * Built an AI-driven text-to-video tool ahead of schedule, achieving **visual consistency (80%)** from concept to production.
  - **Tech Stack:** Python, OpenCV, MoviePy, Streamlit, FastAPI, Selenium, Google OAuth, Web Scraping, NLP, Prompt Engineering, Gen AI, Multimodal LLMs, Crew AI.

- **SDE AI/ML Intern | Spring Works**
  July 2023 - Sept 2023   *3 Months*
  - Boosted chatbot **test coverage from 30% to 75%** via Pytest development while collaborating with interns to build successful proofs of concepts.
  - **Tech Stack:** Python, Pytest, NLP, LLMs, LangChain, LlamaIndex, Vector Database

Education

- **B.Tech in Computer Science**   *2020 - 2024*
  - Graduated from Aditya College of Engineering and Technology with a focus on AI & ML.

Skills & Proficiencies

- **Programming Languages:** Python, C/C++
- **Technologies:** Machine Learning, Deep Learning, Generative AI, AI Agents, RAG
- **Frameworks & Tools:** PyTorch, LangChain, FastAPI, SQL, NoSQL Pytest, Streamlit, Git

Projects

- **Ed AI**   GitHub
  - ED AI is an AI assistant offering personalized course recommendations, Socratic AI chat, and mock interview simulations to address learning and teaching challenges.
  - Achieved **2x faster execution** by optimizing & Fine-tuning AI algorithms and boosting efficiency.
  - **Tech Stack:** Python, Gen AI, RAG, langchain, FastAPI, Cloud, DevOps, pytest.

- **AI Enhanced Surveillance**   GitHub
  - Automated surveillance with a Face Recognition System scans live feeds, detecting specific individuals and raising alerts for matches in the database.
  - Optimized facial recognition **accuracy to 90%**, streamlining real-time surveillance operations.
  - **Tech Stack:** Deep learning, MongoDB, OpenCV, Python, Tkinter, FastAPI.

Volunteer Experience

- **SDE Mentor | Innovative Origin**
  April 2024 - March 2025   *1 Year*
  - Mentored **100+ students** in AI & ML, focusing on industry applications.

Achievements

- Won Hackathon: **'Solving for India'** by GFG, Google and AMD at institutional region.   Certificate
- Won devpost's International Hackathon 'Fresh Hacks'
- Achieved **5-star** on HackerRank in Problem Solving.
- Solved **300+ coding problems** on Leetcode, GFG.

Certifications

- Azure AI Fundamentals Certification
- MTA Python Certification