

Pennada Venkata Chaitanya

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WORK EXPERIENCE

- **AI Software Developer | Freelancing**
July 2024 - Present
 - Developed a fully automated AI-powered GIF Studio, improving **accuracy by 95%** and boosting **execution speed by 5x**, leading to a **100x increase in user engagement** on the platform.
 - Independently led and executed the project, integrating advanced AI features from the ground up.
 - **Tech Stack:** Python, OpenCV, MoviePy, Streamlit, Gen AI, Selenium, Google OAuth, REST APIs, Web Scraping, Data Handling, Prompt Engineering.
- **Founding AI Engineer | AI Gen Media**
March 2024 - June 2024 (Contract Role) 3 Months
 - Developed an AI-driven story text-to-video tool ahead of schedule, achieving **80% visual consistency**.
 - Successfully executed the project solo, managing it end-to-end from concept to deployment.
 - **Tech Stack:** Python, NLP, Prompt Engineering, Multimodal Models, REST APIs, Data Quality Assurance, Crew AI.
- **SDE AI/ML Intern | Spring Works**
July 2023 - Sept 2023 3 Months
 - Increased chatbot **test coverage from 30% to 75%** through Python test development.
 - Collaborated with fellow interns, contributing positively to group progress.
 - **Tech Stack:** Python, Pytest, NLP, LLMs, LangChain, LlamaIndex, Vector Database
- **AI/ML Intern | Technical Hub**
July - Nov 2022 & May - July 2023 6 Months
 - Developed and deployed ML models, increasing model **accuracy by 90%**.
 - Mentored new interns, providing guidance and assistance with project blockers.
 - **Tech Stack:** Python, Machine Learning, Deep Learning, TensorFlow, NLP, LLMs, Computer Vision.

EDUCATION

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

SKILLS & PROFICIENCIES

- **Programming Languages:** Python, C++, C
- **Technologies:** Machine Learning, Deep Learning, NLP, Generative AI
- **Tools:** FastAPI, GIT, SQL, Scikit-learn, NLTK, TensorFlow, AI Agents, RAG, LangChain, Streamlit

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 AI algorithms and boosting efficiency.
 - **Tech Stack:** Python, Gen AI, RAG, Fine-tuning, streamlit, langchain.
- **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.

VOLUNTEER EXPERIENCE

- **SDE Mentor | Innovative Origin**
June 2024 - Present
 - Taught industry-ready skills in AI and ML to a diverse group of **100+** students.

ACHIEVEMENTS

- Won Hackathon: **‘Solving for India’** by GFG, Google and AMD at institutional region. [Certificate](#)
- Won International Hackathon: **‘Fresh Hacks’** by devpost. [Certificate](#)
- Achieved **5-star** on [HackerRank](#) in Problem Solving.
- Solved **350+** coding problems on [Leetcode](#), [GFG](#).

CERTIFICATIONS

- Azure AI Fundamentals [Certification](#)
- MTA Python [Certification](#)