Pennada Venkata Chaitanya

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Work Experience:

- **Machine Learning Engineer | AI Gen Media | March 2024- June 2024:**

As a contract employee, I rapidly developed an AI-driven text-to-video tool ahead of schedule. This project demonstrated my expertise in LLMs, text-to-image models, and AI agents, achieving 80% visual consistency. I also strengthened my skills in prompt engineering and data quality assurance.

- **SDE AI/ML Intern | Spring Works | July 2023- September 2023:**   [Certificate]

Developed Python tests & POCs for Spring Works' AI chatbot (Albus), boosting test coverage from 30% to 75%. Demonstrated proficiency in Python, NLP, and LLMs through testing and feature development, such as building a feature to extract key information from CSV and Notion files.

- **AI/ML Intern | Technical Hub | July 2022- November 2022:**   [Certificate]

Developed and deployed ML models. Enhanced CV models for improved accuracy and performance. Collaborated with professors & documented code for future use.

Skills & Proficiencies:

- **Programming Languages:**   Python, C++, C, SQL
- **Technologies & Proficiencies:**   Machine Learning, Deep Learning, NLP, LLM, AI Agents, Data Structures & Algorithms, Problem Solving

Education:

B Tech in Computer Science and Engineering: Completed Bachelor's degree in Computer Science and Engineering at Aditya College of Engineering and Technology.

Projects:

- **AI-Enhanced Surveillance:**   [GitHub]

AI-Enhanced Surveillance utilizes computer vision and machine learning algorithms to enhance security systems, enabling continuous vigilance.

- **Story Book AI:**   [GitHub]

This project explores the concept of transforming textual narratives (like short stories or novels) into a sequence of images that visually represent the story's key scenes and characters.

- **Custom Database Assistant powered by LLM:**   [GitHub]

Custom chatbot leveraging power of an open-source Large Language Model (LLM) to intelligently engage in natural language conversations with a custom Database as Knowledge.

- **License Plate Detection:**   [GitHub]

Utilized image processing and ML to recognize license plates from images and video streams

Achievements:

- Won institutional-level Hackathon: 'Solving for India' by GFG, Google and AMD. - [Certificate]
- Completed 550+ problems on Leetcode and Geeks for Geeks.
- Achieved 5-star rating on Hacker Rank in Problem Solving, C++, Python, SQL.

Certifications:

- Azure AI Fundamentals, MTA Python Certification from Microsoft
- The Joy of Computing Using Python from NPTEL
- Data Science for Beginners from NASSCOM