# SURYA NARAYANAA

+91 7448757584 · thangarajsurya001@gmail.com · *suryanarayanaa*

## ABOUT ME

An aspiring software engineer on the domains of Artificial Intelligence and Deep Learning and Web Development. Passionate about creating AI models and solutions that address real-world challenges. seeking an opportunity to join the CSEA where I can expand my knowledge, refine my skills, and contribute to the success and growth of the community.

## EXPERTISE

**AI & DL**

- PyTorch
- Model Fine-Tuning
- Generative Adversarial Networks(GAN)
- Retrieval-Augmented Generation(RAG)
- Image Classification(CNN)

**Web Development**

- Flask
- Django
- ExpressJs

**Soft Skills**

- Critical Thinking
- Team Collaboration
- Problem-Solving
- Adaptability

## PROJECTS

**1 Image Generation using GAN :**

Built a model with using GAN architecture that was trained on *Anime Face* dataset to generate images of anime faces. The model was built using PyTorch and was trained on Local GPU using data augmentation and regularization techniques.

**HuggingFace Space :** https://huggingface.co/spaces/surya54101q/anime-face-GAN

**2 LLM based RAG system :**

Built our own RAG architecture that enables user to chat with any pdf's. The model was built only using open source tools without relying on any API's. Made us of on-device using Ollama for faster response time.

**Github Repo :** https://github.com/surya54101q/RAG

**3 Deepfake Content Detection :**

Currently building a multi-model AI that predicts whether the content is generated by a AI or whether it is a DeepFake content.

**Github Repo :** https://github.com/Surya0265/RealEyes (Contributor)

**4 TranscribeX-with-Summarization :**

Transcribing video files into text subtitles and summarizes the content using generative AI. Converting video to audio, applying speech-to-text for subtitle generation, and using AI for summarization. It includes a Flask app for web interactions and uses Cloudinary for video handling.

**Github Repo :** https://github.com/surya54101q/TranscribingTool

**5 Voice Assisted Geo-Navigation system :**

Built a voice-activated GIS system that leverages OpenAI's Whisper model for speech-to-text (STT) conversion. This system integrates voice commands to query geographic data, providing a user-friendly interface for accessing and analyzing spatial information. The integration of advanced speech recognition enables efficient, hands-free interaction with GIS software.

**GitHub Repo :** https://github.com/yesh-045/Voice-enabled-GIS (Contributor)

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## ACHIEVEMENTS

- Achieved 2nd Place in the college-wide Math Olympiad (2023).
- Published a White Paper on "AGI & ASI" through "The Eye" club.
- Ranked in the Top 10 Teams at the NextTech Hackathon.

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## EDUCATION

**2023-2027**

PSG College of Technology
BE Computer Science and Engineering (AI & ML)
CGPA: 8.8/10 (Upto Sem-2)

**2021-2023**

Dr VGN Matriculation Higher Secondary School
HSC - Computer Science
Percentage - 98.8%

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## CONTACT


+91 7448757584

https://www.linkedin.com/in/suryanarayanaa/

https://github.com/surya54101q

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