VENKATA SUDHEER PARUCHURI

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech,CSE-AIML	SRM Institute of Science and Technology, Chennai	9.48	June,2025
12th	Narayana Junior College / BIEAP	96.6	May,2021
10th	Sri Krishnaveni E.M High School / BSEAP	10	May, 2019

Skills

- **Programming Languages**: Python, SQL, C, C++, Java, JavaScript
- **Technologies**: Agentic AI, Generative AI, LLMs, RAG, LangChain, Machine Learning, Deep Learning, NLP, Computer Vision, GANs, Diffusion Models, Data Analysis, React , FastAPI
- **Libraries**: Hugging Face, Transformers, Tensorflow, Keras, Numpy, Pandas, Scikit Learn, OpenCV
- **Tools**: OpenAI API, Excel, Power BI, Tableau, Jupyter Notebooks, MySQL, VS Code, Git

Experience

- **Prodapt** *July,2025 - Present*
  Software Engineer I Pune, India
  - As a Software Engineer at Prodapt, I am working on projects that leverage the latest technologies in the field. My work involves building scalable backend services using FastAPI, integrating intelligent automation pipelines, and developing AI-driven solutions with a focus on Agentic AI. I contribute to designing and deploying web applications that combine modern full-stack development practices with advanced AI capabilities to optimize workflows and deliver high-impact business outcomes.
- **Cognizant Technology Solutions** *May,2025 - July,2025*
  GCP Associate Pune, India
  - I worked on a Smart Health System that processed real-time health vitals collected from user-connected smart wearables. I was responsible for building and managing data pipelines using Google Cloud Platform (GCP) tools such as BigQuery, Cloud Storage, and Dataflow. My role focused on ensuring efficient, scalable data ingestion, transformation, and analysis. This enabled timely health insights and supported downstream analytics for monitoring and decision-making.
- **Pantech Solutions** *Jan,2024 – Mar,2024*
  Machine Learning and Data Engineer Trainee Chennai, India
  - Developed and deployed Machine Learning models across various industry use cases in a local environment, focusing on predictive analytics and automation. Designed interactive data visualization dashboards using Power BI and Tableau to communicate insights effectively.Conducted regular live sessions to present project outcomes, gaining valuable feedback from peers and mentors, which contributed significantly to technical growth and professional development.
- **ENDURO** *Oct,2022 – Dec,2022*
  Software Developer Trainee Remote
  - Analyzed user requirements to design, develop, and implement new software features aligned with business goals and user needs. Proactively identified and resolved development issues, ensuring smooth workflows and timely project delivery.Adapted quickly to new technologies and frameworks, demonstrating strong problem-solving skills and consistently receiving positive feedback from team leads for fast upskilling.

Projects

- **GAN-Powered Image Steganography with LLM and RAG**
  Techstack : ***Python, PyTorch, GANs, LangChain, RAG, OpenAI API, FastAPI***
  - Developed a secure system that lets users upload an image and embed a secret text message, which is first compressed/obfuscated using an LLM and optionally optimized via RAG before being hidden using a GAN-based steganography encoder. The embedded message can be extracted later with the correct key, ensuring high imperceptibility and robustness.
- **AI Powered Healthcare: Medicine and Doctor Recommendation System**
  Techstack : ***Python, LangChain, RAG, OpenAI API, FastAPI, YouTube Data API***
  - Developed an AI-powered doctor and medication recommendation system using LangChain and RAG, combining medical literature with anonymized patient records for real-time, up-to-date results . Supported text and voice input with structured recommendations, safety disclaimers, and traditional remedy suggestions via YouTube API.
- **Deepfake-based Text-to-Image Synthesis for Criminal Face Generation**
  Techstack : ***Python, PyTorch, GANs, Diffusion Models, OpenAI CLIP, FastAPI***
  - Built an AI system that converts textual suspect descriptions into realistic facial images using GANs, diffusion models, and CLIP for precise text–image mapping. Designed to assist law enforcement in visualizing suspects from witness statements. Integrated a web interface for entering descriptions, generating variations, and refining results interactively.
- **MiniGen: Few-Shot Image Generation**
  Techstack : ***Python, GANs, Flask, PyTorch, React***
  - Built a few-shot image generation system using GANs and PyTorch, enabling realistic image creation from a small number of reference images. Integrated a Flask backend with a React-based frontend to provide an interactive web interface for uploading reference images and generating new variations.

Certifications

- Oracle Certified in AI Foundations
- Oracle Certified in Generative AI
- Oracle Certified in AI Vector Search
- Oracle Certified in Data Science
- AWS trained in Cloud Fundamentals
- NPTEL certified in Machine Learning and Deep Learning
- NPTEL certified in Python

Achievements

- SRM Merit Scholarship Holder
- Winner in SRM TECHNO Hackthon organized by SRM-KTR
- Finalist in HashBreaker 2.O organized by VIT-AP
- Finalist in Layer 2.O organized by SRM-KTR

Publications

- GAN-Powered Image Steganography
- Deep Faked based Text to Image Synthesis for Criminal Face Generation
- Counterfeit (Fake) Currency Detection using Mobilenet and Resnet Models
- Object Detection and Distance Calculation for Visually Impaired Persons