Pragadeesh KMS

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[LinkedIn](#) | [Portfolio](#)

OBJECTIVE

Dedicated and ambitious student with a strong focus on **diffusion models** and **advanced language models**, driven by a passion for generative AI. Experienced in designing impactful applications and contributing meaningful research. Eager to advance AI through rigorous academic exploration and collaborative innovation under esteemed faculty mentorship.

EDUCATION

S.R.M Institute of Science and Technology   Chennai, TN, India
*B.Tech in Computer Science and Engineering; **CGPA: 9.23***   *Sept 2020 – Jun 2024*

Coursework: Data Structures and Algorithms, Operating Systems, Artificial Intelligence, Database Systems, Computer Architecture, Compiler Design, Linear Algebra, Statistics, and Calculus.

SKILLS

- **Programming & Frameworks**: Python, SQL, C++, Rust, TensorFlow, PyTorch, Keras, Transformers, Diffusers.
- **Technologies**: Google Cloud Platform, Microsoft Azure, Docker, Open AI Playground, Hugging Face.
- **Research Areas**: Machine Learning, NLP, Deep Learning, Generative AI, 3D Geometry.

PROJECTS

- **Text-to-3D Generation Using Vision Transformers**: Developed a **ViT**-based system to generate 3D models from a single 2D image, ensuring texture accuracy while **minimizing computational overhead and latency.**
- **Vision Guard**: Engineered a real-time Personalized Content Moderation tool using **RT-DETR**, **CLIP**, and **SAM-2** to detect and blackout screen content based on user-defined keywords, enabling content control and enhanced focus.
- **Dynamic AI Gaming with LLMs**: Created a gaming framework integrating LLMs and RAG to design **adaptive and intelligent NPCs**, enhancing player interaction and dynamic storytelling.
- **Speech-to-Image with Advanced Prompting**: Implemented a multilingual system using **Whisper** and **Diffusers** to convert speech into images with **low latency** and **high accuracy** through advanced prompting techniques.

THESIS & PUBLICATIONS

- **Type Sculpt: Text-to-3D Generation with Personalised Precision using Adaptive Attention Mechanism**: IRCCTSD'24 (**Best Paper Award**), Selected for inclusion in **Springer Nature Proceedings** (Forthcoming)
- **Synergizing Creativity and Code: A Quantum Leap in Game Development through Conversational AI**:

EXPERIENCE

Unremot   Remote, IN
AI Prompt Engineer   *Feb 2024 – Present*

- Developed AI-bots and Co-pilots for **The Wadhwani Foundation**'s Ed-Tech platforms, achieving **over 95%** accuracy in performance through optimized prompt engineering.
- Designed advanced prompting strategies, including **COT, TOT, ReAct, Reflexion, Self-consistency** and **multi-agent** methods, improving system robustness and preventing prompt hacking.

SOUL AI   Remote, IN
AI Engineer Intern   *Sept 2023 – Jan 2024*

- Trained a state-of-the-art large language model (LLM) using Reinforcement Learning with Human Feedback (**RLHF**), achieving **over 90%** accuracy in user responses.
- Applied expertise in Computer Science and Mathematics, including **Statistics, Geometry,** and **Probability**, to develop an AI tutor optimized for educational applications.

AWARDS AND CERTIFICATIONS

- **Best Paper Award**: IRCCTSD Conference, SRM University, 2024
- **ML-Ops Specialization**: Duke University, 2024.
- **Azure AI-900**: Microsoft, 2024.
- **Best Project Award**: Library Management System: DBMS, 2023.
- **Reinforcement Learning**: Hugging Face, 2023.

VOLUNTEER WORK

- **Speaker**: Led a team and delivered seminars on **AI, ML, and LLMs to high-school students.**
- **Leadership**: Headed **WHHC** and **ACE** club events and coordinated **DI Club** initiatives at SRM University.
- **Community Service**: Led a crowdfunding campaign for Rotary Club, raising 10,000 INR for **Polio-free India**.