

Meghanand Gejjela

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EDUCATION

University of Michigan

Major: Master of Science, Computer Science and Engineering

Ann Arbor, Michigan

Graduation: May 2027

Relevant Courses: Natural Language Processing, Advanced Techniques in Computer Vision, Human-Computer Interaction

SRM Institute of Science and Technology - Cumulative GPA: 9.65

Chennai, Tamil Nadu

Major: Bachelor of Technology, Artificial Intelligence

Graduation: August 2025

Scholarships: Merit Based Scholarship: Dec 2024, Merit Based Scholarship: Dec 2023, Merit Based Scholarship: Dec 2022

EXPERIENCE

iFosys

iOS App Development Intern

Mysore, Karnataka

April 2024 – May 2024

- Engineered a hospital management iOS application using SwiftUI, integrating Gemini API to provide AI-powered specialist suggestions based on user-reported symptoms.
- Applied agile methodologies throughout the project, fostering team collaboration and simulating a professional development environment.
- Devised a user-friendly feature integrated with the Gemini API to assist patients in navigating unfamiliar medical specialties, enhancing informed decision-making for first-time healthcare seekers.

PROJECTS

LLM Efficiency Benchmark

Large Language Models, Subprocess Sandboxing, Memory Profiling, HuggingFace, Evaluation Metrics

- Designed and built a benchmark to evaluate Large Language Models (LLMs) on functional correctness, execution time, and memory usage across ~50 curated competitive programming problems.
- Implemented sandboxed subprocess evaluation with dynamic time and memory profiling using tracemalloc and threading, ensuring test case isolation and fairness.
- Created a multi-level test suite and scoring system combining Pass@1 and efficiency-based metrics (time + memory) for fine-grained performance ranking.
- Benchmarked 10+ open-source LLMs (e.g., LLaMA, Mistral, DeepSeek, Gemini) and human-written solutions, achieving clear comparative insights through visualizations.
- Released dataset and benchmarking suite on HuggingFace, enabling reproducible experiments and community contribution

Entity Extraction from Images

Florence-2-large, PaddleOCR, spaCy, OpenCV, Custom NER

- Built an extraction pipeline processing over 250,000 images to retrieve key details like weight, volume, and dimensions with 60% accuracy.
- Applied Florence-2-large and PaddleOCR for text extraction from distorted images, achieving 90% accuracy in challenging layouts.
- Preprocessed over 250,000 images using OpenCV to enhance data clarity and fine-tuned a custom spaCy NER model, attaining over 92% accuracy in classifying metrics like voltage and weight, extracting standardized data formats.

Histify

Large Language Models, Stable Diffusion, GeminiAI, Streamlit

- Created a platform for students understand theoretical subjects by visualizing concepts through stories.
- Fine-tuned GeminiAI to actively extract key information, achieving 90% accuracy
- Developed interactive quizzes and a Q&A section to enhance learning and clarify doubts.

Virtual Try On

CNN, Transfer Learning, OpenCV, PIL, Semantic Segmentation

- Executed the implementation of the VITON-HD paper by Seunghwan Choi et al. and reached around 75% of accuracy.
- Implemented techniques such as image segmentation, image masking, posture detection, each achieving over 95% accuracy.

ACHIEVEMENTS

- Attained the highest score in the department during the first year of college.
- Ranked top 8 out of a thousand applicants in national level hackathon DS Hack 2.0.
- Secured a top 10 ranking in the prestigious national hackathon CAD 2.0.

PUBLICATIONS

- Meghanand Gejjela, Arun, C., Bhadja, K., Anupama, C.G., Selvakumarasamy, S., & Gopinath, N. (2025). From Prompts to Contexts: Analysis of LLM's Strengths and Weaknesses in Capturing Nuance. In: Proceedings of the 3rd International Conference on Power Engineering and Intelligent Systems (PEIS 2025), National Institute of Technology Uttarakhand, India. To appear in Springer Lecture Notes in Electrical Engineering (LNEE), SCOPUS-indexed.