GANESHA SRINIVAS DAMARAJU

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EDUCATION

University of Southern California — Los Angeles, California
Master of Science - Computer Science — January 2024-December 2025
- Courses: Foundations of AI, Machine Learning, Deep Learning, Applied Natural Language Processing

Amrita Vishwa Vidyapeetham — Amritapuri, Kerala
Bachelor of Technology - Computer Science (Artificial Intelligence) — July 2019-May 2023

WORK EXPERIENCE

99 Yards — New York City, New York
Machine Learning Intern — October 2024-Present
- Leveraged ResNet and Vision Transformer models for feature extraction, achieving 92% accuracy in pattern and color recognition and enhancing cross-modal fashion applications.
- Improved scalability by designing a Flask API with FAISS, enabling fast similarity searches on large datasets.
- Fine-tuned LLMs for image classification, collaborating with teams to align solutions with business goals.

SIRTOGO — HYDERABAD, INDIA
Machine Learning Intern — December 2022-March 2023
- Worked closely with cross-functional teams to design and deploy a personality trait prediction model, presenting findings to stakeholders and ensuring seamless integration into the mock interview program.
- Engineered a predictive model refining precision and reliability of personality assessments. Communicated findings and technical details, resulting in a 30% increase in accuracy
- Presented technical insights to college administrators, driving adoption of the model for mock interviews, benefiting over 50 students by enhancing preparation through tailored feedback.

ACADEMIC PROJECTS

Transforming Natural Language into SQL using Transformers
- Designed and implemented a state-of-the-art system to convert natural language queries into SQL using custom fine-tuned transformer models (T5, Bart, Llama), enabling seamless database interaction for non-technical users.
- Optimized encoder-decoder architectures, boosting logical form and execution accuracy over baseline models on WikiSQL and Spider datasets.
- Built reusable, scalable modules for real-world applications across domains like healthcare, finance, and e-commerce.

PlantHealthAI
- Led a team to develop a binary disease classification model for Ground Nut Plants, improving diagnostic accuracy by 15% with machine learning techniques.
- Engineered a ResNet-UNet-based leaf segmentation pipeline, raising prediction precision by 20% and streamlining agricultural workflows.
- Conducted error analysis and presented insights to stakeholders, driving data-driven decisions and measurable impact..

SKILLS

Tools: GIT, MySQL, SQLite, Webots, Kubernetes, Selenium, SolidWorks, GCP, Android Studio
Frameworks: Pandas, CUDA, NumPy, Scikit, NLTK, TensorFlow, PyTorch Keras, Django, Flask, OpenCV, Tableau, Streamlit, Flask
General: Machine Learning, Deep Learning, Natural Language Processing, Data Analysis, Data Visualization, Data Science, Computer Vision, Large Language Models, Project management, Image Processing, Time Series Forecasting
Languages: Java, Python, JavaScript, Go, JSON, SQL, R, MATLAB, HTML,CSS

ACHIEVEMENTS

Winner of HackHarvard 2021: Back from Scratch
- Built TGMP Tuberculosis Detector, improving detection accuracy by 20% and securing "Best Medical Hack" award.
- Presented technical details of TGMP Tuberculosis Detector to judges, demonstrating impact and innovation.

PUBLICATIONS

- PlantHealthAI: An Integrated System for Plant Disease Detection,Severity Prediction
- Robust and Scalable Network Monitoring System using Apache Spark