

Priyanka Moorthy

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EDUCATION

Masters in Artificial Intelligence <i>San Jose State University</i>	Aug. 2021 – May 2023 San Jose, CA
Integrated MSc in Software Systems <i>Anna University</i>	Aug. 2014 – May 2019 India

EXPERIENCE

AI Engineer, Espercare LLC <i>Technology used: Vertex AI, Cloud Run, Python, TensorFlow, OpenCV, Docker, GCP, Gemini</i>	Jul 2023 – Present San Jose, CA
<ul style="list-style-type: none">Architected and deployed a multi-agent system utilizing Gemini for function calling. Engineered cooperative agents to dynamically route queries and perform grounded retrieval across billing and provider configuration domainsImplemented continuous evaluation framework on Vertex AI with human feedback integration and pairwise preference comparison. Monitored key performance metrics including routing accuracy 92%, response correctness, and query latency of 2s, achieving over 90% workflow efficiency while eliminating manual lookupsDeveloped an ensemble extraction pipeline increasing healthcare claim processing efficiency by 60%.Achieved 27% performance gains via domain-specific fine-tuning and implemented an LLM as a Judge framework for automated QA and validation.Automated claim categorization and downstream data ingestion, significantly reducing manual overhead and accelerating end-to-end workflows.	

Software Engineer, RedBlackTree Tech <i>Technology used: Python, NLP, Django, GCP, RabbitMQ, Celery, Docker, MySQL</i>	Jan 2019 – May 2020 India
<ul style="list-style-type: none">Architected and served an end-to-end NLP pipeline (OCR, CNN classification) for automated lease provision extraction, reducing identification time by 82% and achieving an AUC of 0.92.Built a scalable, asynchronous processing system using RabbitMQ and Celery to manage distributed tasks and control model inference concurrency.	

PROJECTS

Image Generator <i>Cycle-GAN, Tensorflow, OpenCV, Computer Vision</i>	May 2023
<ul style="list-style-type: none">Implemented a pix2pix cycle GAN network for image translation from line art to colored butterfly images with a U-Net Generator and patchGAN Discriminator.Synthesized dataset by cropping out the background using a pre-trained classifier, and applied canny edge filter for the train and test data. Achieved discriminator and generator loss of 0.91 and 1.23 respectively.	

Multi-Task Robot Learning <i>VLA Models, PyTorch, MuJoCo</i>	Feb 2026
<ul style="list-style-type: none">Built a 77M parameter Vision-Language-Action model combining EfficientNet-B0 vision encoder, DistilBERT language encoder, and cross-attention fusion to predict robot manipulation actions from camera images and natural language instructions.Implemented behavior cloning pipeline with scripted expert policies for pick/push/place tasks, achieving 22% loss reduction through multi-task learning on Apple Silicon GPU with MPS acceleration.	

TECHNICAL SKILLS

Machine Learning & AI Techniques: RAG, Agent Orchestration, Deep Learning, NLP, Reinforcement Learning, Computer Vision

Libraries & Packages: PyTorch, TensorFlow, Transformers, LangChain, LlamaIndex, Scikit-Learn, OpenCV, Pandas, NumPy

Cloud & MLOps: GCP, AWS, Docker, Kubernetes, RabbitMQ, Celery, Git, Flask, Django

Languages: Python, SQL, Java, C++, JavaScript, Shell Scripting