

# Priyanka Moorthy

408-480-8833 | [priyankamoorthycit@gmail.com](mailto:priyankamoorthycit@gmail.com) | [linkedin: priyanka-moorthy](https://www.linkedin.com/in/priyanka-moorthy) | [github: priyanka-moorthy](https://github.com/priyanka-moorthy)

## EDUCATION

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### Masters in Artificial Intelligence

*San Jose State University*

Aug. 2021 – May 2023

*San Jose, CA*

### Integrated MSc in Software Systems

*Anna University*

Aug. 2014 – May 2019

*India*

## EXPERIENCE

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### AI Engineer, Esperecare LLC

*Technology used: Vertex AI, Cloud Run, Python, TensorFlow, OpenCV, Docker, GCP, Gemini*

Jul 2023 – Present

*San Jose, CA*

- 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 domains
- Implemented 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 lookups
- Developed 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

*Technology used: Python, NLP, Django, GCP, RabbitMQ, Celery, Docker, MySQL*

Jan 2019 – May 2020

*India*

- 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

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### Image Generator | *Cycle-GAN, Tensorflow, OpenCV, Computer Vision*

May 2023

- 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 | *VLA Models, PyTorch, MuJoCo*

Feb 2026

- 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

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**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