

Harshita Poojary (HP)

Los Angeles, CA | 213-234-8695 | [Email](#) | [LinkedIn](#) | [Portfolio](#)

EDUCATION

University of Southern California, Los Angeles, CA

Masters in Computer Science (Artificial Intelligence) **GPA: 3.7/4.0**

Aug 2023 - May 2025

Ramrao Adik Institute of Technology, University of Mumbai

Bachelor of Engineering in Computer Engineering **GPA: 9.35/10**

June 2015 - May 2019

SKILLS

Core Programming Languages: C, Python

Other Programming Languages: NodeJS, JavaScript, AngularJS, HTML/CSS.

Databases: MongoDB, Redis, MySQL, ElasticSearch, Milvus.

WORK EXPERIENCE

AI/ML Engineer, *Reliance Jio*

Jan '22 - July '23

- Optimized face registration Retinaface model with model compression using **TensorRT** to reduce inference time by **40%**.
- Automated CI/CD pipeline for multiple projects including Video Motion Detection, Face registration, and Recognition.
- Implemented **spoof detection** to prevent false facial verification using a photo or video with an accuracy of **90%**.
- Mentored **12** developers in implementing AI solutions to identify Grooming Scores and Punctuality Scores for individuals.

Product Engineer (Backend), *Reliance Jio*

July 2019 - Dec 2021

- Collaborated with 3 teams to integrate 250+ Newspapers, 150+ Live News channels, 800+ Magazines, and News in 13 languages across multiple media applications, increasing the user base by **50%**.
- Enhanced performance of APIs by **20%** with the integration of performance management, memory optimization, and alert management systems using Kibana, Prometheus, and Grafana.
- Increased user engagement by **30%** by customizing content as per user preferences, content history, and locality, delivering local news, user recommendations, and genre-based content.

ACADEMIC PROJECTS

Distinguish AI generated and Real Human Faces, *Viterbi School of Engineering*

Jan 2024

- Analyzed existing models for Generating human faces including GLIDE, DALLE 2, and Stable Diffusion.
- Currently implementing CNN networks and Transformers to classify images into real and fake.

Utilizing AI-Generated Images for Object Detection and Classification, *Viterbi School of Engineering*

Jan 2024

- Analyzed existing domains that lack training datasets to generate AI-synthesized images for learning.
- Currently researching the performance of detecting survivors in post-earthquake scenarios using AI-generated images.

Malaria Detection, *Department of Computer Engineering, RAIT*

Aug 2022

- Developed models using CNN, KNN, and Vision Transformers to detect malaria parasites in blood smear images. Trained on a dataset of **27,558** images.
- Evaluated various models and achieved an accuracy of **97%** using Vision Transformer.

Dementia Detection from MRI Data

Mar 2022

- Designed a model using SVM and Random Forests to detect Dementia from MRI details. Trained on an Open Access Series of Imaging Studies (OASIS) dataset comprising **373** data points and **15** features.
- Attained an accuracy of **96%** using Random Forest.

PAPER PUBLICATIONS & PRESENTATIONS

- "[Comparative Analysis of Deep Learning Techniques for Malaria Detection](#)", IEEE (2022).
- "[System and Method for Early Detection and Post Disease Detection of Dementia Patients](#)", IEEE (2022).
- "[Classification of Garbage For Robotic Systems Using Deep Learning Techniques](#)", IEEE (2022).
- "[Innovative Teaching and Learning Interface with Evaluation Tool](#)", IJIRCCE (2019).

LEADERSHIP EXPERIENCE

Event Head, *Computer Society of India*

July 2015 - Feb 2019

- Generated revenue (around **9000** INR), organized and administered events "Web Daemon" and "Code Swap" in the annual fest TECHMATE at RAIT.
- Conceptualized and designed editorial sections for the annual newsletter and technical magazine COZINE.

Mentor, *Women in Engineering*

July 2021 - Feb 2023

- Collaborated with a group of **58** School Alumni in Career Guidance and Counseling for **150** college students.
- Organized workshops and webinars on Web Development, and Machine Learning for **200** students.

ACHIEVEMENTS & CERTIFICATIONS

- Completed Nanodegree in [Computer Vision](#) (Dec 2020), [Artificial Intelligence](#) (Sep 2020), [Deep Learning](#) (Apr 2020), and [Machine Learning](#) (Sep 2018) from Udacity.
- Currently pursuing a specialization in [GAN](#) and [MLOps](#) Courses from Coursera.