

# Harshita Poojary (HP)

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

## EDUCATION

**Ramrao Adik Institute of Technology**, University of Mumbai

Bachelor of Engineering in Computer Engineering, **GPA: 9.35**

**May 2019**

*Selected Coursework:* Data Structures & Algorithms • Distributed Databases • Data warehousing & Management • Machine Learning • Artificial Intelligence

## SPECIALIZED SKILLS

**Programming Languages:** Python, NodeJS, JavaScript, AngularJS, Java, Unix Shell Scripts (Bash), HTML/CSS, SQL.

**Operating Systems:** Linux, Windows.

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

## ENGINEERING EXPERIENCE

**AI/ML Engineer**, *Reliance Jio*

**Jan 2022 - Jul 2023**

- Optimized face registration with model compression with **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 **90%** accuracy.
- Mentored a group of **12** developers in implementing AI solutions to identify Grooming Score, Punctuality Score for individuals.

**Product Engineer (Backend)**, *Reliance Jio*

**Jul 2019 - Dec 2022**

- Collaborated with 3 teams to integrate 250+ Newspapers, 150+ Live News channels, 800+ Magazines, and News in 13 languages across multiple media applications thereby 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.

## RELEVANT ACADEMIC PROJECTS

**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.
- Performance* (F1-score): VGG (96%), CNN (78%), CNN-KNN (58%), Vision Transformer(97%)

**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.
- Performance* (Accuracy): SVM (88%), Random Forest (96%)

**Garbage Classification**

**Aug 2021**

- Implemented and analyzed Deep learning models including CNN, and ANN with Transfer Learning to classify garbage along 2,527 different classes trained on the UCI ML dataset.
- Performance* (Accuracy): CNN (97%), ANN (95%), Transfer Learning (88%)

**Facial Keypoint Detection**

**Jul 2020**

- Implemented a CNN network to build a facial keypoint detection system using a set of image data extracted from the YouTube Faces Dataset.
- Successfully added filters to a person's face, using the facial key points detected by the trained model.

## PUBLICATIONS

- Harshita Dooja Poojary, Sumithra T.V “[Comparative Analysis of Deep Learning techniques for Malaria Detection](#)”, IEEE (2022).
- Saurabh Bhaskarrao Kshirsagar; Harshita Dooja Poojary; Yuvraj Singh Rana; Avik Jain; Naga Sasank Bonda; Shikhar Saxena “[System and Method for Early Detection and Post Disease Detection of Dementia Patients](#)”, IEEE (2022).
- Harshita Dooja Poojary, Nachiket Mahesh Shinde, Akash Kumar Singh, Vivek Kothuru, Saurabh Bhaskarrao Kshirsagar, Harsh Agarwal “[Classification of Garbage For Robotic System Using Deep Learning Techniques](#)”, IEEE (2022).
- Sumithra T.V, Harshita Dooja Poojary, Akshata Dattaram Tatkare, Pranali Mahesh Mugutrao, Manasi Ramesh Pandit “[Innovative Teaching and Learning Interface with Evaluation Tool](#)”, International Journal of Innovative Research in Computer and Communication Engineering (2019).

## LEADERSHIP EXPERIENCE

**Event Head**, *Computer Society of India*

**Jul 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*

**Jul 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, 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.
- Pursuing specialization in [GAN](#) and [MLOps](#) Courses from Coursera.
- Received academic excellence award for securing 3rd rank for the academic year 2016-17.

## ACTIVITIES/INTERESTS

*Tutor:* Organized classes, and quizzes for underprivileged children

Solving puzzles; Poetry; Illustrator

Volunteer: Reliance Foundation, Robinhood Army