HARSHITA POOJARY

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EDUCATION

University of Southern California, Los Angeles, CA.

Master of Science - Computer Science (Artificial Intelligence)

Coursework: Analysis of Algorithms, Deep Learning, Artificial Intelligence, Machine Learning

University of Mumbai, Mumbai, India.

Bachelor of Engineering - Computer Engineering

Coursework: Soft Computing, Distributed Databases, Web Technologies

TECHNICAL SKILLS

Core Programming Languages: C, Python

Other Programming Languages: NodeJS, JavaScript, AngularJS, HTML/CSS, Java, C++

Databases: MongoDB, Redis, MySQL, ElasticSearch, Milvus

Frameworks & Tools: Docker, Kubernetes, PyTorch, Keras, TensorFlow, OpenCV, AWS, Azure, GIT, Jira, Postman, Swagger, Jenkins

WORK EXPERIENCE

Deep Learning Researcher

Jan 2024 - Present

Aug 2023 - May 2025

Jul 2015 - May 2019

GPA: 3.85/4.00

GPA: 3.83/4.00

Integrated Media Systems Center, Los Angeles, California.

 Analyzing and implementing models using Deep learning and OpenCV to track and count homeless encampments in the city of Los Angeles for urban planning by local government bodies.

AI/ML Engineer Jan 2022 - Jul 2023

Reliance Jio, India.

- Optimized face detection 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 mobile-based 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.

Software Developer (Backend)

Jun 2019 - Dec 2021

Reliance Jio, India.

- 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.

PROJECTS

Distinguish AI generated and Real Human Faces (PyTorch, Stable Diffusion, Python)

Aug - Dec 2023

- Analyzed existing models for Generating human faces including GLIDE, DALLE 2, and Stable Diffusion.
- Implemented CNN networks and Transformers to classify images into real and fake with 80% accuracy.

Analyzing AI Images for Object Detection and Classification (DALLE-2, PyTorch, Keras)

Sep - Dec 2023

- · Analyzed existing domains that lack training datasets to generate AI-synthesized images for learning.
- Improved the detection of survivors in post-earthquake scenarios by 5% using AI-generated images with DALLE-2.

Sentiment Analysis (Python, PyTorch, AWS)

Jan – Apr 2020

- Implemented Sentiment Analysis on movie reviews from IMDb dataset using XGBoost.
- Utilized **Amazon Sagemaker** to create EC2 instance and deploy an API for the model.

LEADERSHIP EXPERIENCE

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, and Machine Learning for 200 students.

EventHead, Computer Society of India

Mar 2022 - Apr 2022

- 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.

ACHIEVEMENTS & CERTIFICATIONS

- Completed Courses: Computer Vision (Dec 2020), Artificial Intelligence (Sep 2020), Deep Learning (Apr 2020), Machine Learning (Sep 2018)
- Ongoing Courses: GAN, MLOps, Building Real-Time Video AI Applications
- Received Award of academic excellence for securing Top 3 position in the Sophomore year.