

MIHIR GANDHI

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EDUCATION

Georgia Institute of Technology

August 2021 – May 2023 (Expected)

Master of Science in Computer Science, **GPA: 4.0/4.0**

Atlanta, GA

Relevant Coursework: Computer Vision, Artificial Intelligence, Data Visualization

KJ Somaiya College of Engineering, University of Mumbai

August 2016 – October 2020

Bachelor of Technology in Computer Engineering, **CGPA: 9.46/10, Rank: 1/152**

Mumbai, India

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Machine Learning

WORK EXPERIENCE

Georgia Institute of Technology

Jan 2022 – Present

Research Assistant, KUKA Robotics Lab

Atlanta, Georgia

- Working on Human Tracking and Pose Estimation under the guidance of Prof. Seth Hutchinson.
- Research focuses on multi-camera perception for achieving robust and reliable Human-Robot Collaboration.

Reliance Jio

July 2020 – June 2021

Deputy Manager in R&D Team

Mumbai, India

- Designed and evaluated S-CSCF server failover and fallback strategies to drive down registration failure by 12%.
- Automated request-response counter analysis using a JS script, which reduced analysis time by 92%.
- Implemented enhancements in the IMS Core to support 5G interworking.

Eloquent Techart

June 2018 – July 2018

Android Development Intern

Mumbai, India

- Developed an Android application for financial management and expense tracking.
- Used Adobe XD as UX design tool, Android Studio as development environment, and Firebase as database.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, Dart, SQL

Web Technologies: HTML5, CSS, Bootstrap, PHP, Angular, NodeJS, Django

Frameworks and Tools: PyTorch, TensorFlow, Android Studio, Flutter, MATLAB, Tableau, Adobe XD, Git

PUBLICATIONS

Sign Language Recognition using Convolutional Neural Network: Springer ICACDS 2021.

Smart Control of Traffic Light using Artificial Intelligence: IEEE ICRAIE 2020.

Decentralized Freelancing System - Trust and Transparency: IRJET Volume 6 Issue 9, September 2019.

PROJECTS

Adaptive Traffic Signal Timer | Python, YOLO object detection, Darkflow, Pygame

- Built a system that controls traffic signals based on real-time traffic density to reduce the average wait time by 23%.
- Trained a custom YOLO object detection model to count vehicles by class (car, bus, truck, bike).
- Devised a signal-switching algorithm that sets signal timers according to the number of vehicles of each class.
- Showcased at a National Level Project Competition organized by Government Polytechnic, Mumbai.

Sign Language Recognition App | Python, TensorFlow, Java, Android Studio

- Developed an app that identifies sign language alphabets to aid in communication with the speech and hearing impaired.
- Designed a novel lightweight Convolutional Neural Network(CNN) based on VGG-16 architecture, which achieved an accuracy of 89% with an average detection time of 1.2 seconds.
- Deployed the CNN in an Android app using TensorFlow Lite to enable offline and mobile use.

Meeting Minutes App | Java, Android Studio, Python

- Developed an Android application that converts speech to text to create a transcript of the audio.
- Used IBM Watson Speech to Text API for real-time and accurate transcription.
- Implemented a bag-of-words model for keyword extraction and text summarization.

LEADERSHIP / EXTRACURRICULAR

Contributing Writer at Towards Data Science: Over 19k views to date, selected as Editor's Pick.

Feb. 2021 – Present

Photography Head at Maker Mela: Led a team of 30 photographers and videographers.

Aug. 2018 – Jan. 2019

Logistics Chief of College Photography Team: Managed a team of 50 students.

June 2017 – June 2018

Event Head at Skream: Organized a National Sports Competition hosting over 100 institutes.

Oct. 2016 – Jan. 2017

President's Scout Award: Awarded by Former President of India Pranab Mukherjee for exceptional skills as a boy scout.