

# 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

**BlackRock** **June 2022 – Present**  
*Summer Analyst (SWE)* *Atlanta, Georgia*

- Working in the Aladdin Product Group Alternatives Team to optimize the Whole Portfolio Solutions offering.
- Migrating the communication between DX Hub and DX Transformer to be event-based messages using Kafka.

**Georgia Institute of Technology** **Jan 2022 – May 2022**  
*Graduate Research Assistant, KUKA Robotics Lab* *Atlanta, Georgia*

- Worked on Human Tracking and Pose Estimation to achieve robust and reliable Human-Robot Collaboration.
- Assisted in research on Cooperative Manipulation using AR tags to track the location and pose of robots and object.

**Reliance Jio** **July 2020 – June 2021**  
*Deputy Manager in R&D Team* *Mumbai, India*

- Designed and evaluated S-CSCF server failover and failback 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 shared expenses tracking.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, JavaScript, Dart, SQL  
**Web Technologies:** HTML5, CSS, Bootstrap, PHP, Angular, NodeJS, Django  
**Frameworks and Tools:** PyTorch, TensorFlow, Kafka, MATLAB, Android Studio, Flutter, Spring, Tableau, 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).
- 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.

**Enron Email Corpus Analysis** | Python, scikit-learn, Isolation Forest, LDA model

- Performed anomaly detection using Isolation Forests to detect abnormal behavior leading to the Enron scandal.
- Analyzed and visualized the social network by modeling the communication between employees to find key influencers.
- Classified emails based on their subject, body content, and metadata using an LDA model.

## LEADERSHIP / EXTRACURRICULAR

**Contributing Writer at Towards Data Science:** Over 25k 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*  
**President's Scout Award:** Awarded by Former President of India Pranab Mukherjee for exceptional skills as a boy scout.