

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.