# DISHA SHAH

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## EDUCATION

**MS Data Science**, Rochester Institute of Technology, GPA 3.94/4.00 — Expected 2024
Course Highlights: Software Engineering, Statistics, Neural Networks

**MSc Artificial Intelligence and Machine Learning**, Gujarat University, GPA 3.7/4.00 — 2018 - 2020
Course Highlights: Machine Learning, Deep Learning, Advanced Python

**Bachelors of Computer Application**, Ahmedabad University, GPA 3.58/4.00 — 2015 - 2018
Course Highlights: Database Management, Statistical Analysis, Software Project Development

## SKILLS

- Python, Java
- Computer Vision
- Communication
- MySQL, MongoDB
- Machine Learning
- Teamwork
- Django, Flask
- Keras, PyTorch
- Leadership
- Pandas, NumPy
- OpenCV, SKLearn

## EXPERIENCE

**Machine Learning Intern (Co-op)** — May 2023 - Present
Rochester Institute of Technology — *Rochester, NY*

- Implemented camera calibration methodologies to facilitate the accurate retrieval and placement of fuel injectors from a conveyor belt into specific bins using a robotic arm.
- Employed image processing techniques to identify multiple components on the conveyor belt, enabling the robot to achieve precise part retrieval.
- Established a communication link between the robot and conveyor belt systems through socket-based integration.
- Developed a Siamese model using Keras to classify images into 5 categories with 90% accuracy.

**Associate Software Engineer (AI & ML)** — Jan 2020 - Jun 2022
GlobalVox Inc. — *Ahmedabad, India*

- Designed and implemented an advanced Facial Recognition System leveraging Machine Learning and Deep Learning techniques, achieving rapid identification of over 100k individuals within a 2-second timeframe.
- Developed an automated invoice system employing Keras, achieving 80% accuracy in extracting and formatting text as per customer specifications.
- Created APIs and designed database architecture for a robust facial recognition system using Flask and MongoDB.
- Developed a comprehensive project management solution utilizing the Django framework to effectively monitor the advancement of numerous employees across multiple concurrent projects.
- Successfully developed an Indian Number Plate recognition system, employing diverse image processing methods for enhanced accuracy.
- Engineered software to monitor eye and face movements during online exams, showcasing adeptness in computer vision.
- Played a pivotal role in the Entopedia project by constructing a Django REST Framework, integrating SERP API for efficient searches, and implementing push notifications through Firebase. Managed tasks via Jira and Agile methodologies, ensuring seamless operations. Designed, structured, and managed MySQL database to store project data.

## PROJECTS

**Person Re-Identification.** Re-Identify a person in an environment with multiple cameras. Employed approaches such as FRCNN-based person detection, feature extraction techniques based on convolution neural networks (resNet-50 architecture), and classification using the Euclidean distance between extracted and stored features.

**Classification of Naturally and Artificially Ripped Banana.** Detecting and classifying natural and artificial ripped banana. FRCNN, SSD, and YOLO methods for object detection were compared, while AlexNet was used for classification. Collected data of naturally and artificially ripped banana from market and farm.

**Research Finding Initial Centroids for K-Means Clustering.** Performed research work under Prof. Trushali jambudi (Ahmedabad University) to find initial centroids for making convergence of the k-means algorithm faster. Used the R programming language to implement it.