

# Tirth Dineshbhai Hihoriya

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## EDUCATION

### Arizona State University | Masters in Computer Science

Arizona, USA

Relevant Coursework: Cloud Computing, Digital Video Processing, Data Mining

Aug 2022 – May 2024

Data Visualisation, Knowledge Representation, Software Verification/Validation/Testing

GPA: **4.0/4.0**

### Nirma University, Institute of Technology | Bachelors in Computer Science

Ahmedabad, India

Relevant Coursework: Computer Networks, Algorithms, Machine Learning, Database, Deep Learning

Jul 2018 – May 2022

Operating Systems, Computer Architecture, Software Engineering, Artificial Intelligence, Web Development

GPA: **9.28/10**

(Overall 3rd Rank)

## TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, SQL, HTML, CSS, JavaScript, Dart
- **Framework and Libraries:** Matlab, PyTorch, TensorFlow, Keras, NLTK, OpenCV, Linux, Git, Django, D3.js, AWS
- **Core Skills:** Data Science, Machine Learning, Deep Learning, Big Data, Software Development, MS Excel

## WORK EXPERIENCE

### Machine Learning Intern, V360° Technology Inc., New York, USA

Jan 2022 – Jun 2022

- **Led a team of 4** interns and worked on a project to automate diamond grading which reduced the **cost by \$25K annually** and increased the **efficiency by 40%**. Work recognized by leadership as **'The Best Intern'**.
- Developed the pipeline for web scraping the **2 million images** as the dataset, processing it, and training different models. **Reduced the training time by 38%** by using various techniques and deployed models in **GCP**.
- Analyzed client and vendor product data, resulting in better business decisions and a **20% increase in profit**.  
(Python, Google Cloud Platform, Keras, Tensorflow, Google Colab, PyTorch, OpenCV)

## PROJECTS

### Autoscaling Image Classifier using AWS | (AWS, Cloud, EC2, S3, SQS, Python, Flask)

Aug 2022 – Sep 2022

- Built a scalable cloud web application using AWS resources that classifies images using the Resnet model.
- Implemented auto-scaling which **optimizes** the number of instances or resource loads of input requests.
- Tested on 100 input requests which can **scale-out** to 19 instances and then **scale-in** to 0 instance in 2 min only.

### Chest X-Ray Analysis for Pneumonia Detection | (Python, PyTorch, Nvidia Dali)

Oct 2021 – Nov 2021

- Developed a Machine Learning Model to classify **5863 X-Ray images** into Healthy or Pneumonia (Corona) affected patients & the model powers the AI application to test the Corona Virus in a Faster Phase.
- Experimented with several pre-trained convolutional neural networks (CNNs) like InceptionNet, GoogleNet, AlexNet and VGGNet resulted in over **96.5% accuracy** on the test dataset.

### Sentiment Analysis with GUI | (Python, Tensorflow, Tkinter-GUI)

Mar 2020 – Apr 2020

- Trained a bidirectional LSTM model for sentiment analysis on an IMDB dataset of **8000 words**.
- Achieved an **accuracy** of about **95%** on the training dataset and **86%** on the testing dataset.

### HOMTEL (Hostel Information Portal) | (Django, HTML, CSS, Javascript, PostgreSQL)

Nov 2019 – Dec 2019

- Developed a **scalable** website to accommodate over **10,000 student** users for finding a nearby hostel.
- Implemented features like user **authentication, access control, search queries**, etc. Hostel owners can add/update/delete hostels or rooms as per their availability and, students can search/filter hostels or rooms.

## EXTRACURRICULAR ACTIVITIES

- **Treasurer at ACM student chapter** | Organized flagship international event, guided juniors in career.
- **Student Placement Coordinator** | Communicated with students and placement department regarding queries.
- **'Healing touch', E-Hackathon** | Our team has secured a place in TOP-5 among 20 teams in the competition.
- **Community service at The Akshaya Patra Foundation** | Served mid-day meals to the students of rural areas.