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 – Dec 2023
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, 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.