Dhwani Trivedi

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EDUCATION

MS. In Data Analytics Engineering **Northeastern University, Boston, MA**   *Sept'21- Present*
Relevant Courses: Data Management for Analytics, Foundations of Data Analytics using R

B. Tech Electronics and Communication Engineering BVM Engineering College, India   *Aug'17 – Jun'21*
Relevant Coursework: Python Programming, Information Theory,

EXPERIENCE

Data Science /Research Intern   *Jan'21-April'21*
BISAG, *Gandhinagar, India*
- Successfully developed a deep learning model with **87% accuracy** to perform land cover classification for change detection.
- Two satellite images of the specific time and coordinates are cropped from Sentinel Hub for data collection.
- Pre-processed it and retiled it using the GDAL library for dataset preparation.
- Created mask images for semantic segmentation using LabelMe annotation tool on the training data set.
- Tested using the image of the different periods if any change was detected change maps were displayed.

Undergraduate Research Fellow   *Jan'19- Feb'19*
ICTP (UNESCO Tier 1 Research Institute)
Trieste, Italy
- Granted fellowship amongst 12 participants out of 60 in the world at International Center of Theoretical Physics in the workshop of Workshop on Rapid Prototyping of Internet of Things Solutions for Science. Used temperature data to monitor the changes in the weather of a location from 20kms of distance
- Proposed an idea during Case Study Presentation on AI-Enabled Traffic Monitoring systems using LoRaWAN and IoT.

RELEVANT COURSEWORK

Machine Learning, Python Programming, Image Processing, Computer Vision, Data Management for Analytics

PROJECTS

AI-Enabled Self Diagnosis Tool using Tongue Image Capture and Prescription Generation for UN SDG 3

[Poster selected at symposium in Harvard Medical School] [Paper] [Demo Video] [GitHub][2nd Best Poster Award]

Potato Weight Identifier Android Application using Transfer Learning   CNN, Object Detection, Scikit Learn

[Poster at UNESCO MGIEP, TECH 2019, India] [Paper] [Demo Video]

Human Gesture Recognition Wearable Device for Physically Abled People   SVM Classifier, Python3, Arduino Nano

[Poster at UNESCO MGIEP TECH 2018, India] [Demo]

Contactless Camera Enabled Infrared Thermal Scanner   OpenCV, Face Recognition, Raspberry Pi, TensorFlow-Lite

[Demo Video] [Code] [Received a grant of 100000 INR/- from BVM Engineering College]

Real-Time COVID-19 Detection and Prediction Using Chest X-rays and CT scan: A Comparative Study Using AI

[Book Chapter in Springer Nature- Applications of Artificial Intelligence]

LEADERSHIP EXPERIENCE

Youth Campaigner at WSIS Forum ITU UNESCO UNDP UNCTAD *Virtual/Geneva, Switzerland*   *May 2020 –Present*
- Selected amongst **12 young people around the world** to channel more youth in the field of ICT in the WSIS Forum events, a stakeholder platform, and describe how they responded using technology especially ICT.
- Invited as [Moderator] [International Girls in ICT Day] [ICT – Covid-19 Repository] at WSIS Forum 2021

Presenter at UNESCO HQ Mobile Learning Week Conference, *Paris, France*   *March 2018*
- Selected amongst **60 from 200 proposals** at Mobile Learning Week, UNESCO's flagship ICT in education conference themed on Skills for Connected World and successfully presented on AI in Education and Ethics [Presentation Video]

Certifications
- AI for Medical Diagnosis
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Python for Everybody
- Fundamentals of Visualization with Tableau
- Support Vector Machine Classification in Python

Skills
Programming: Python, R, SQL
Machine Learning Frameworks: TensorFlow, Scikit- Learn
Deployment: Streamlit, TensorFlow-Lite
Databases: MySQL, MongoDB