

# Dhwani Trivedi

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## Education Qualification

Course: **Masters of Science**[Data Analytics Engineering]

Institute: Northeastern University Boston, MA,

Courses taken: Foundations of Data Analytics using R  
Data Management of Analytics

Grade: 3.84 GPA

Course: **B.Tech.** [Electronics and Communication Engineering]

Institute: Birla Vishwakarma Mahavidhyalay Engineering College, V.V. Nagar, Anand, Gujarat. India

## Publications:

- Indian Patent: Provisional application ref. no. 202021054636, System and method for data encryption and decryption, December 2021
- Book Chapter in Springer Book Series: Algorithms for Intelligent Systems “Real-time Covid-19 Detection & Prediction using Chest X-rays and CT Scan: A Comparative Study Using an AI “(To be published <https://www.springer.com/series/16171> ), 2020
- AI-Enabled Self Diagnosis Predictor Tool using Tongue Image Capture with Automatic Prescription Generation, ISSN: 2278-3075, Volume-9 Issue-7S, May 2020.
- Paper presentation on AI-Enabled Wearable using Gesture Recognition at ICHDMAST International conference at MBICT- 2019
- Published a Paper on Identifying the Weight of Potatoes using Artificial Intelligence on Raspberry Pi and Android Application 2018

## Work Experience/Internships:

- International Telecommunication Union’s WSIS Youth in ICT Campaigner May 2021 - **Present**
- Research Intern at Bhaskaracharya Institute of Space and Geoinformatics, India, 2021 (4 Months)
- Certificate of participation as an Intern in Five Weeks (30 Hours) training program on IoT Infrastructure (Nebulae Luminous) organized by BVM Engineering College and SLS (India) Pvt Ltd. January 2020 (5 Weeks).

## Projects:

- AI-Enabled Self Predictor Tool for Primary Diagnosis using Tongue Image Capture for UN SDG 3 a funded project by SSIP, Government of Gujarat, India ([Youtube Link](#))
- AI to identify the person from Handwriting ([Youtube Link](#))
- Identifying the Weight of Potatoes using Artificial Intelligence on Raspberry Pi and Android Application ([Youtube Link](#))
- AI to identify the Emotions using the facial expression ([Youtube Link](#))
- Text Objection detection using AI. ([Youtube Link](#))
- ESP32 Google home ([Youtube Link](#))
- Arduino Radar
- Arduino GPS Tracker
- AI-enabled wearable prototype for Gesture Recognition and Primary Education for SDG4 ([Youtube Link](#))
- Contactless Infrared Thermal Scanner with Camera ([Youtube Link](#))
- Covid-19 Tracker

## Presenter at Conferences:

- **Poster** selected on AI Enabled Self Diagnosis Tool using Tongue Image Caputre and Prescription Generation at Health Data Science Symposium: Smartphones, Wearables, and Health organised by Hosted by the Brigham & Women's Hospital and **Harvard Medical School Dept of Neurosurgery's Computational Neuroscience Outcomes Center & the Harvard School of Public Health Onnela Lab, Boston MA** 5th November 2021
- **Moderator as ITU's WSIS Youth in ICT Campaigner** at the [WSIS TalkX](#) on New Technologies and Innovations for Ocean Conservation, organised by **the Permanent Missions of the Dominican Republic and Portugal together with ITU and UNESCO** 7th June 2021.
- Youth Speaker at WSIS'21 ICTs and Youth track: International **Girls in ICT Day** organized by ITU, Switzerland- 23 April 2021 <https://tinyurl.com/ICTDay2021>
- Panellist in live interview series in WSIS'21 Stocktaking: Coronavirus (COVID-19) Response – ICT Case Repository organized by ITU, Switzerland. <https://tinyurl.com/wsistitu> - 25<sup>th</sup> March 2021
- Speaker in live interview series in WSIS'21 Stocktaking: Coronavirus (COVID-19) Response – ICT Case Repository organized by ITU, Switzerland. <https://fb.watch/3rtm6msyYJ/> - 4<sup>th</sup> February 2021
- Poster presentation at UNESCO Chair Royal Holloway London Virtual The ICT4D Non-Conference, 15-17 September 2020, London. <https://ict4d2020.org/posters-trivedi/>
- Presenter at **Mobile Learning Week at UNESCO**, Paris in “Innovation demonstrations” for AI Enabled Self Predictor Tool for Primary Diagnosis using Tongue Image Capture for UN SDG 3 2020. 3<sup>rd</sup> March -2020 (Postponed due to Covid19)  
<https://en.unesco.org/sites/default/files/mlw2020programme-en.pdf>
- Selected as a Panellist at Youth Panel at UNESCO in ICT's flagship event Mobile Learning week at UNESCO Paris. 5<sup>th</sup> March 2020 (Postponed due to Covid-19)  
<https://en.unesco.org/sites/default/files/mlw2020-programme-en.pdf>
- Keynote Speaker at Mobile Learning Week at UNESCO, Paris for Ensuring non-discriminatory and gender-equitable use of AI for lifelong learning 4<sup>th</sup> March-2020 (Postponed due to Covid19)
- Acceptance of Poster at The ICT4D Non-Conference, 15-17 September 2020, London.  
<https://ict4d2020.org/posters-trivedi/> (Postponed due to Covid19)
- Acceptance of Paper on AI-Enabled Self Predictor Tool for Primary Diagnosis using Tongue Image Capture for UN SDG 3 at IJITEE conference 21<sup>st</sup> February 2020
- Presented at Mobile Learning Week at UNESCO, Paris on AI in Education and Ethics 2018  
[https://www.youtube.com/watch?v=JH3AsE1G2\\_g](https://www.youtube.com/watch?v=JH3AsE1G2_g)
- Certification of Completion in Workshop on Rapid Prototyping on the Internet of Things, ICTP, Italy 2019 <https://youtu.be/zyECghJkq1c>
- Participated in Virtual Girls in ICT Day initiated by ITU-2020
- **Poster Presentation** on AI-Enabled Wearable using Gesture Recognition Device at UNESCO MGIEP TECH-2019 Vizag, India
- **Poster Presentation** on Identifying the Weight of Potatoes using Artificial Intelligence on Raspberry Pi at UNESCO MGIEP TECH-2018 Vizag, India
- Certificate of Appreciation for Publishing paper on Identifying the Weight of Potatoes using Artificial Intelligence on Raspberry Pi and Android Application at International STEM Conference Gandhinagar, India 2019

## Coursera Certifications:

- Python for Everybody Specialization (5 Courses) Coursera, University of Michigan, 2020, Credential ID- T7SPX7E9CCH4
- Certification by Deeplearning.ai on AI for Medical Diagnosis, Coursera, M4GBLZSHEC5F 2020
- Certificate by Deeplearning.ai on AI for everyone by deeplearning.ai by Coursera Credential ID- LJVAFH4LMYHK, 2020

- Certificate by UC Davis (Coursera) 'Fundamentals of Data Visualization using Tableau, Credential ID C3DSB45KMPP4 by Coursera.
- Certificate of Linear Regression with NumPy and Python Credential ID, VFJ7S5EXZCKC Coursera 2020
- Certificate of Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning by deeplearning.ai, Credential ID- XLFXCREZDSBT 2020
- Certificate of Creating Database Tables with SQL by UC Davis, Coursera, Credential IDEGKXGH4DEE8S 202

### Awards:

- **Winner of Data Analytics Hackathon(Easy Track)** organised by DAESO club, Northeastern University, Boston, MA 2021.
- **Letter of Appreciation** by our **Honorable Chief Minister of Gujarat Shri Vijay Rupani** for representing my projects at ITU and UN partners' WSIS Forum 2021.
- Awarded **100000/- INR** by our esteemed Alumni of BVM Engineering College Mr. Ashok Patel for representing BVM Engineering College at International Level in UN and ITU's conferences.
- 2<sup>nd</sup> best poster award, at Virtual The ICT4D Non-Conference, 16<sup>th</sup> September 2020, London by the UNESCO Chair ICT4D and Emerald Publishing House, UK.
- Runners Up Aatma-Nirbhar Ideathon by SSIP BVM in Business and Entrepreneurship for ideas and solutions in post-pandemic reforms after COVID-19 2020
- The Complete Woman of EC Department Award by EC Department, BVM Engineering College, for an all-rounder performer throughout 3 years of engineering. 2020
- Super Star Innovator and Researcher Award by EC Department, BVM Engineering College, 2020
- Start-up Excellence Award by BVM Board of Governance in Recognition of Developing the Prototype for Opalescent-2019
- Youth icon award by Government of Gujarat, India-2019
- "Gaurav Puraskar" awarded on Vidyanagar Foundation Day for presenting at UNESCO 2019
- Best International Experience Award for being selected at the Workshop on Rapid Prototyping on the Internet of Things, ICTP, Italy 2019

### Social Activity:

- Made and donated over 350 M19 Face Shields to the health-care workers by being a part of The M19 Collective initiated by Maker's Asylum, India. <https://www.makersasylum.com/covid19/>  
Featured in national news channel NewsX <https://youtu.be/5v8jG3pcHjE>

### Certifications:

- Participated in CSRC-ICTP Joint Workshop on Big Data, Machine Learning and Complexity Research, ICTP, Italy 2020
- Participated in Sansadhan Hackathon organized by Government of India, Bill and Melinda Gates foundation and 91Springboard - Accessible India-2019 (<https://youtu.be/8yVtj8NJ0JU>)
- Certificate of participation in ACM Conference at IIT Gandhinagar- 2020
- Participated in a 'Drone making' workshop and distinguished lecture by His Holiness Dalai Lama at IIT Mumbai Techfest 2018.
- Certificate of participation in Five Weeks (30 Hours) training program on IoT Infrastructure (Nebulae Luminous) organized by BVM Engineering College and SLS (India) Pvt Ltd. January 2020
- Certificate of Participation for the first IPR Olympiad by ISERED -2019
- Certificate of Participation for 'Patent Clinic' workshop organized under SSIP and TEQIP III by BVM Engineering College. September 6-7, 2019
- Certificate of Participation for attending an Industrial Visit at E-infochip, Ahmedabad February 2019
- Certificate of participation in Regional Forum for Europe on "Accessible Europe: ICTs 4 ALL" took place in St George's Bay, St. Julian's, Malta organized by International Telecommunication Union (ITU) and European Commission (EC), and is hosted by the Parliamentary Secretariat for Persons with Disability & Active Ageing (PSDAA).

- Certificate of Participation for completing a hands-on Workshop in the course “Modeling of Antenna using ANSYS HFSS” July-2019
- Certification of Appreciation for participating and exhibiting Opalescent Start-up in SSIP International Conference at EDI Gandhinagar- 2019
- Certificate of completion in Image classification and Object Detection by NVIDIA Deep learning institute 2018
- Certificate of Participation in the Digital Marketing Seminar, IEEE (ADIT branch) 2018
- Certificate for Participation in VHDL Programming Workshop 2018
- Certification of Participation in three days python workshop 2018
- Participation in IoT workshop, Maker’s Fest, Ahmedabad University, Ahmedabad 2018
- Certificate of Participation in Robotics Workshop Using Arduino, IEEE 2017
- Certificate of Appreciation for Publishing paper on Identifying the Weight of Potatoes using Artificial Intelligence on Raspberry Pi and Android Application at International STEM Conference at Gandhinagar, India 2019

### Co-circular activities:

- Certificate of Participation in “Vyaktitvam” in KnowHow’19 by T & P Cell and BVM- February 2019
- Certificate of Participation in “Cribado” in KnowHow’19 by T & P Cell and BVM- February 2019
- Certificate of Participation in “Ahl ar-Ray” in KnowHow’19 by T & P Cell and BVM- February 2019
- Certificate of Participation in “Verbatim” in KnowHow’18 by T & P Cell and BVM- February 2018
- Certificate of Participation in “Googlist” in KnowHow’18 by T & P Cell and BVM- February 2018
- Certificate of Participation in “#Personage” in KnowHow’18 by T & P Cell and BVM- February 2018
- Certificate of Participation in “Delegacy” in KnowHow’18 by T & P Cell and BVM- February 2018
- Certificate of participation in International Math Olympiad 2015

**Media Coverage:** By Thelma Chikwanha (Paris)

(<https://www.thelmachikwanha.com/2018/04/weneed-more-women-in-icts.html> )

**Membership and Activities:** IEEE Student Member (Member ID 94421176) Gujarat Section

### Soft Skills

- Teamwork
- Adaptability
- Time Management
- Public Speaking
- Intrapersonal Communication
- Technical Writing

### Software Skills /Frameworks

- Python3, R
- Arduino
- Tableau
- TensorFlow, Pytorch, Keras
- NumPy, Pandas, Matplotlib, Seaborn
- HTML, CSS

### Languages

- English
- Hindi
- Gujarati
- German A1
- French A1

### Hobbies

- Badminton
- Playing Keyboard
- Playing Guitar