Dhirubhai Ambani
Institute of Information and Communication Technology

HARSH VELANI

M.Sc. Agriculture Analytics

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)

CPI: 8.47

July 2023 – Present Gandhinagar, Gujarat

Anand Agricultural University (AAU)

B.Sc. (hons.) in Agriculture
CPI: 7.62

2019 – 2023 Anand, Gujarat

Class 12th School (GHSEB)

Percentage: 78.42%

2017 – 2019 Rajkot, Gujarat

Class 10th School (CBSE)

CGPA: 9.3

2016 – 2017 Kutch, Gujarat

SKILLS

Area(s) of Interest : Statistics, Machine Learning, Deep Learning, NLP, Data Analysis, Remote Sensing, Geo-spatial Analysis

Programming Languages : Python, SQL

Tools and Technologies : QGIS, ArcGIS, Erdas Imagine, GEE, Power BI, Tableau, PostgreSQL, MS Excel

EXPERIENCE

Geo-Spatial One Pvt. Ltd.

Working as a Geo-Spatial Analyst.

May 2024 - July 2024

• Analyzed spatial data using GIS tools such as QGIS and Google Earth Engine (GEE) to achieve project objectives and facilitate decision-making processes.

• **Guide:** Dr. Virat Arora

PROJECTS

Cotton Yield Prediction for Gujarat [GEE, PostgresML, Streamlit]

February 2024

• The cotton yield prediction, using ML with SQL, predicts by analysing historical data like total production, rainfall, soil moisture, NDVI, FAPAR, LST, LAI, temperature. Indices data were collected using GEE. Used PostgresML & connected to Streamlit cloud for GUI. Used Linear Regression model & compared with traditional way using python notebook.

• **Guide:** Dr. Kamal Pandey and Dr. Kapil Oberai

Electric Vehicle Adoption Analysis in India [Excel, Python]

January 2024

• Collected the data(2015-23) from official website of Ministry of Road Transport & Highways, GOI. Did EDA(Pandas) and visualization (Matplotlib, Plotly). As GOI is now focusing on Electric and Renewable Energy adoption in the country, so, analysed and visualized it for meaningful insights. Analysis showed the increasing trend of EV Vehicle sales and affected sales due to COVID-19 pandemic.

• **Guide:** Dr. Prasun Kumar Gupta

Soil Organic Carbon Prediction Using QRF [R, Python]

April 2024

• The SOC Prediction predicts the organic carbon present in soil using Quantile Regression Forest for Dhanaulti, Uttarakhand. I used input features like NDVI, DEM, Aspect, Slope, Flow Acc., TWI, LULC, Lithology and generated Predicted Map and Uncertainty Map.

• **Guide:** Mr. Justin George

POSITIONS OF RESPONSIBILITY

National Service Scheme (NSS)

Participated in community service activities and promoted social welfare through volunteering.

April 2019 – June 2023

INTERESTS

- Coding
- Sports
- Travelling
- Photography

ACHIEVEMENTS

- Received certificate for "Crop Yield Monitoring using Geospatial Data" by Amnex.
- Received certificate for "ArcGIS Pro:Essential Workflows" by ESRI.
- Received certificate for "Microwave Data Processing and Applications" by SAC, ISRO.
- Received certificate for "DBMS and My SQL" by LetsUpgrade.
- Received certificate for "Advanced Excel, Power BI and Tableau" by Pioneer Tech.
- Received certificate for "Excel Skills for Bussiness Job Simulation" by Goldman Sachs from Forage.