Dhirubhai Ambani
Institute of Information and Communication Technology

# HARSHKUMAR CHOTHANI

**M.Sc. Agriculture Analytics**

## EDUCATION

**Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)**
**CPI:8.53**
July 2023 – Present  Gandhinagar, Gujarat

**B.Sc.(Hons) Agriculture**
**Junagadh Agricultural University** (JAU)
**CPI: 7.9**
2019 – 2023  Junagadh, Gujarat

**Class 12th School** (GHSEB)
**Percentage: 77.85%**
2017 – 2019  Junagadh, Gujarat

**Class 10th School** (GSEB)
**Percentage: 85.33%**
2016 – 2017  Keshod, Gujarat

## SKILLS

**Area(s) of Interest :** Data Analysis, Machine Learning, Deep Learning, NLP, GIS, Remote Sensing, Statistics.

**Programming Languages :** Python, SQL.

**Tools and Technologies :** ERDAS, QGIS, ArcGIS, GEE, Excel, Power-BI, Tableau, Looker Studio

## EXPERIENCE

### Geo-Spatial One Pvt. Ltd.

**Geo-Spatial Analyst Intern**
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

### Tomato Leaf Disease Detection Using Deep Learning :

May 2024 - June 2024

•We train a Convolutional Neural Network (CNN) on a dataset of tomato leaf images to classify them into disease categories. The CNN learns features from the images to differentiate between healthy and diseased leaves, aiding in early detection and management of plant diseases.

### Anlayzing And Visualizing Air Quality Trends in Delhi

January 2024

•Developed a data analysis and visualization project on Delhi's Air Quality Index (AQI) using Python. Leveraged Pandas, NumPy, matplotlib, seaborn, and Plotly to analyze AQI trends from 2021 to May 2023. Create interactive visualizations, highlighting AQI fluctuations and providing insights into Delhi's air quality dynamics.
• **Guide:** Dr. P.K. Gupta

### Soil Properties Prediction & Mapping (GEE, Python, Erdas, QGIS)

December 2023

•We integrate Google Earth Engine (GEE) and machine learning (ML) to predict and map soil properties using the SCORPAN model. Utilizing remote sensing data (NDVI, DEM, LST) and soil properties data, the project aims to create detailed maps of soil properties distribution, enhancing land management and agricultural practices.
• **Guide:** Dr. Ranendu Ghosh, Dr. Viral Dave

## POSITIONS OF RESPONSIBILITY

### Volunteer - National Service Scheme (NSS)

**I engaged deeply in social welfare and community service initiatives, actively contributing through volunteer efforts.**

2019 – 2023

## INTERESTS

- Sports : Kabaddi
- Folk Dance
- Traveling

## ACHIEVEMENTS

- Received Certificate for Application of "Advanced Geospatial Technologies in Agriculture (Crop Yield Modelling)" by AMNEX
- Received certificate for "Advanced Excel, Power BI and Tableau" by Pioneer
- Received certificate for "DBMS and My SQL" by LetsUpgrade.
- Received Certificate for "Microwave Data Processing and Applications" by SAC(ISRO).
- Received Certificate for "Spatial analysis with ArGIS Pro : Essential workflows" by ESRI.
- Participated in XXI All India Inter Agricultural Universities Sports & Games Meet–2022-23, Hisar, Haryana.
- Secured 2nd rank for Folk Dance & Mono-Acting in NSS State Level Competition.