Dhirubhai Ambani
Institute of Information and Communication Technology

HARSHILKUMAR PONKIYA

M.Sc Agriculture Analytics

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), IIRS-ISRO, and Anand Agriculture University(AAU)
CPI: 7.56

📅 July 2023 – Present   📍 Gandhinagar, Gujarat

B.Tech Agricultural Engineering - Junagadh Agriculture University(JAU)
CGPA: 7.20

📅 2018 – 2022   📍 Junagadh, Gujarat

Class 12th School (GHSEB)
Percentage: 65%

📅 2016 – 2018   📍 Gandhinagar, Gujarat

Class 10th School (GSEB)
Percentage:70 %

📅 2014 – 2016   📍 Gandhinagar, Gujarat

SKILLS

Area(s) of Interest : Geospatial Analytics, Agriculture Analytics, Data Analytics, AI for Satellite Data Processing, Data Visualization, Data Scientist, etc.

Programming Languages : Python, SQL, R

Tools and Technologies : GEE(Google Earth Engine), QGIS, ArcGIS, ERDAS IMAGINE, PostGIS, PostgreSQL

Libraries : NumPy, Pandas, Matplotlib, Seaborn, Pytorch, Keras, GDAL, GeoPandas, Rasterio, Scikit-learn, etc.

Business Intelligence Tools : Power-bi, Tableau, Google Looker Studio, Advance Excel.

INTERESTS

- AI in Agriculture
- Precision Agriculture

PROJECTS

What Crop to Grow ??
Dehradun, IIRS-ISRO

📅 February 2024 - March-2024

- A Crop Recommendation project using Machine Learning aims to leverage datadriven insights to optimize crop selection for farmers.

- **Guide:** Dr. Kamal Panday (IIRS-ISRO)

LAI Estimation of Wheat crop, Palampur-Himachal Pradesh
Dehradun, IIRS-ISRO

📅 March 2024 - April 2024

- Employed Google Earth Engine for satellite data analysis, alongside Python and machine learning techniques, to develop a predictive model for Wheat Crop Leaf Area Index (LAI) in Palampur, Kangra District, Himachal Pradesh.

- **Guide:** Dr. N R Patel (Scientist-ASD, IIRS-ISRO)

Drought Analysis in Kutch-Gujarat
DAIICT, Gujarat

📅 October 2023 - December-2023

- Objective: Establish an early warning system that can provide timely alerts to farmers, local authorities, and relevant stakeholders about impending drought conditions, allowing for proactive measures and resource planning.

- **Guide:** Dr. Kamal Panday (IIRS-ISRO)

POSITIONS OF RESPONSIBILITY

Batch Representative, M.Sc Agriculture Analytics 2023-25

Served as the primary liaison between faculty and students, ensuring effective communication and addressing student concerns. Coordinated academic and extracurricular activities, promoted student engagement, and supported internships and placement efforts.

📅 July 2023 – Present

EXPERIENCE

Satyukt Analytics Pvt Ltd.

Remote Sensing Intern

📅 June 2024 - July 2024

• **Crop Discrimination for Rabi Crops in West Bengal (2023-24)**:
• Processing Satellite imagery and developing insights out of them.
• Run and develop models for developing insights.
• Feature identification and classification from satellite images.
• Prepare reports and maps.
• Utilized Python and Google Earth Engine along with machine learning techniques to analyze satellite imagery and ground truth points for accurate crop classification.
• **Guide:** Dr. Sat Kumar Tomer, CEO at Satyukt Analytics Pvt Ltd.

Captain Tractors Pvt Ltd.

GET Research and Development

📅 October 2022 - July 2023

• **Product Life Cycle Understanding**: Gained knowledge in managing the life cycle of new products, from development through to market introduction, ensuring successful product launches.

• **Training Materials**: Created and organized training materials for distributors and sales teams.
• **Surveys and Assessments**: Conducted surveys and site assessments to gather product requirements.
• **Analyzing Product Requirements**: Assisted in analyzing survey data and customer feedback to document product requirements, supporting the development of products tailored to market demands.

ACHIEVEMENTS

- Completed certificate course in "Spatial modeling in ArcGIS" (ESRI India)
- Completed Certification course "Application of Adavanced Geospatial Technologies in Agriculture" by AMNEX Infotech Pvt. Ltd.
- Completed Certification course on "Advance Excel, Power BI, Tableau" by Pioneer Tech.
- 3-days of training on "Microwave data processing" by SAC-ISRO.