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Krishna Sandeep Kumar Vanga

Remote Sensing & GIS Executive

SUMMARY

2+ years of experience in analyzing satellite data and finding solutions to business requirements in the field of agriculture. Highly skilled in developing algorithms, testing, documentation, etc. across the complete development life cycle of a product. Adept at end-to-end development including requirement gathering, documentation, coding, data structuring, and management.

KEY SKILLS

Remote Sensing for Agriculture Python GIS GDAL TImeSeries Analysis Code Optimization Documentation

Coordination Automation

INTERNSHIPS

Remote Sensing Intern
Dec '18 - Jun '19

GeoSpatial Design Labs Pvt Ltd.
Nashik, Maharashtra

Geospatial Design Labs is the parent company of REAL. REAL is the pioneer in establishing and bringing the entire process of GIS based project management tool. REAL and Harvest are the Products of GSDL.

Crop Identification:
- Research on crop identification using machine learning. Explored Microsoft azure and machine learning algorithms to predict the crop.
- Performed Field analysis and collected the ground truth for training and validation data.
- Data Preparation for training machine learning algorithms.

PROFESSIONAL EXPERIENCE

Remote Sensing and GIS Executive
Jun '19 - Present

GeoSpatial Design Labs Pvt Ltd.
Nashik, Maharashtra

Geospatial Design Labs is the parent company of REAL. REAL is the pioneer in establishing and bringing the entire process of GIS based project management tool. REAL and Harvest are the Products of GSDL.

Product1:
- A web application to showcase crop identification at the farm level and farm health card downloads.

Backend: Python, Satellite Data Processing, Dynamic Time Wrapping, Time Series Analysis

Database: PostgreSQL
- Created the table structure according to the business requirement and for easy data accessing.
- Worked on the development of the system to improve the TAT.
- Integrated Soil Moisture Estimation to the farm health card.

Algorithm Development
- Worked on improving the accuracy and efficiency of the algorithm.

Product2:
- A web-based application for the revenue and agriculture growth at the village level for the Maharashtra state helps in identifying the good-performing villages.
- Integrated sowing and harvesting Dates for each farm for the purpose of insurance claims.

Backend: Python, Statistical Analysis

Database: PostgreSQL

Visualization: Worked on creating a visualization panel with folium library in python for QC Team to improve the speed of decision making.

Research:
- Working on cloud removal and building a statistical model to derive the band values for the cloud-affected pixels.
- Microwave data, using Sentinel 1 developed a prediction model with a random forest algorithm to predict Ndvi for cloud pixels.

EDUCATION

Institute of Science and Technology, JNTUH   Dec '16 - Feb '19

Master of Technology - Geo-Informatics and Surveying   Hyderabad
Technology

CMR Institute of Technology, JNTUH   Jul '12 - May '16

Bachelor of Technology - Civil Engineering   Hyderabad

Personal Projects

- Creating a web application with the motive of **MONITORING THE EARTH CRUST** on all remote sensing applications.
- Generating alerts when change happens.
- Downloading the reports accordingly.

TECHNICAL SKILLS

- **Languages**: Python
- **Visualization Tools**: Folium
- **Web Application**: Streamlit
- **OS**: Windows
- **Software**: ArcGIS, QGIS, Erdas Imagine, TimeSat
- **Database**: PostgreSQL

LANGUAGES

English, Hindi, Telugu