Aishwarya V

Image Processing Engineer

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Bangalore, Karnataka

Linkedin

Github

Portfolio

Skills

Python, Data Visualization, SQL, Machine Learning, NLP, Power BI, MongoDB, Computer Vision

Education

IIT-M Advanced Programming & Master Data Science, *IIT-M GUVI*
January 2024 – April 2024 | Chennai

Master's in Remote Sensing & GIS,
NIT Karnataka, Surathkal
October 2020 – July 2022 | Mangalore

Bachelor's in Civil Engineering,
Karpagam College of Engineering
August 2015 – April 2019 | Coimbatore

Certificates

Power BI
GUVI

Agricultural Crop Classification with Synthetic Aperture Radar and Optical Remote Sensing
NASA - ARSET

Projects

Industrial Copper Modelling,
Key Skills: *Python, Machine Learning, EDA, Streamlit*
- Developed a machine learning model to accurately predict sales status (won/lost) and selling price of copper transactions.
- Transformed the raw data of around 1,81,000 records into a clean and insightful format by handling missing ,values, and outliers to create optimal inputs for the models.
- Implemented machine learning algorithms and attained an impressive R^2 value of 0.99 indicating a high correlation between actual and predicted selling price.

Extracting Business Card Data with OCR,
Key Skills: *Python, OpenCV, Streamlit*
- Developed a user-friendly Streamlit application that empowers users to easily extract contact information from business cards.
- Designed and implemented data parsing algorithms to extract relevant information from business cards and incorporated data validation techniques to ensure accuracy.
- Deployed in Streamlit, a user-friendly platform for easier access.

YouTube Data Harvesting and Warehousing,
Key Skills: *Python, GCP, MongoDB, SQL*
- Leveraging Google Cloud Platform (GCP) to automate harvesting of YouTube data and store in SQL warehouse.
- Designed a data harvesting pipeline to extract specific metrics from YouTube channels, such as video count, comments, and viewership patterns.
- The data pipeline facilitated the transformation of raw YouTube data into a structured format, unlocking valuable insights.

Professional Experience

Image Processing Engineer, *Azista Industries Pvt. Ltd.*
October 2022 – August 2023 | Hyderabad
- Led projects involving the classification of land use/land cover (LULC) and crop types leveraging optical satellite imagery.
- Developed a rule-based algorithm utilizing vegetation and water spectral indices to achieve accurate water masking.
- Utilized Google Earth Engine to effectively monitor flood-affected regions and forest cover changes.