

REVANTH KUMAR VEGGALAM

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR, Bhubaneswar, Odisha
B.TECH. in Mechanical Engineering and M.TECH. in Manufacturing Engineering (Dual Degree)

July 2018-May 2023

SKILLS

Functional Skills: Data analysis and visualization, Data cleaning/manipulation, Dashboards, Machine Learning (Predictive, Textual analytics, Neural Networks), Web Scraping.

Technical Skills: SQL (SQL-Server, MySQL), Excel, Python (NumPy, Pandas, Matplotlib, Seaborn, Beautiful Soup, Regex), Scikit-learn, TensorFlow, Keras, OpenCV, Selenium, Tableau-Public.

PROJECTS

COMPREHENSIVE ANALYSIS AND PREDICTIVE MODELING OF CUSTOMER CHURN

- Performed an in-depth analysis of a dataset containing information on 10,000 customers to understand the distribution of customer demographics, product, usage and financial data to identify patterns and trends in customer churn.
- Utilized statistical and machine learning techniques to develop a predictive model that identifies at-risk customers.
- The insights derived from this analysis provided actionable recommendations to improve customer retention strategies and optimize marketing efforts.

TEXT AND SENTIMENTAL ANALYSIS OF WEB ARTICLES

- Used **Beautiful Soup** to extract content data from 100+ web articles to perform text for sentiment and readability analysis.
- Conducted sentiment analysis and derived Polarity and Subjectivity Scores using **NLP** techniques.
- Analyzed text for readability metrics including Average Sentence Length, Fog Index, Complex Words percentage, and syllable count per word etc.

COVID-19 DATA ANALYSIS

- Written **SQL** queries to analyze 2 years of COVID-19 death and vaccination data from ourworldindata.org in MS SQL Server.
- Extracted insights on mortality rates, vaccination coverage, and demographic disparities.
- Created 2 interactive Tableau dashboards for visualizing infection rates, death counts, and vaccination progress, including KPIs and visualizations.

AUTOMATING API PULL USING PYTHON

- Employed **Python** to automate retrieval of cryptocurrency data from coinmarketcap.com with a generated API-key, capturing data at 60-minute intervals.
- Conducted comprehensive data analysis of top 15 cryptocurrencies, revealing insights into market capitalization trends and trading volume dynamics across different time intervals.
- Leveraged **Matplotlib** and **Seaborn** to visualize findings through graphs and charts, facilitating intuitive data interpretation.

PROFESSIONAL EXPERIENCE

MACHINE LEARNING INTERN –VERZEO EDUTECH

May 2021-July 2021

- Developed a Convolutional Neural Network (CNN) model, leveraging custom pretrained EfficientNetB0 model, to accurately detect and classify facial characteristics such as wrinkles, dark spots, and puffy eyes, including instances of clear skin.
- Utilized a dataset of more than 1,000 facial images with labels for distinct characteristics, implementing preprocessing, data augmentation, and one-hot encoding for effective training.
- Integrated Haar Cascade into OpenCV for face detection and trained the model to provide accurate percentage predictions for each characteristic on new images, showcasing results with bounding boxes and labels.

ACHIEVEMENTS

- Secured All India open category rank of 12077 in JEE-Advance among 0.2 million candidates. 2018
- Secured rank of 4269 in TS EAMCET, a common entrance exam for engineering aspirants in Telangana. 2018

POSITIONS OF RESPONSIBILITY

- Publicity team member for Wissenaire, an annual Technical Fest of IIT Bhubaneswar 2018-2020
- Governor and member of CLIX, the photography society of IIT Bhubaneswar. 2018-2022