

Vaijayanthi. S

Data Engineer

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📍 Salem, TamilNadu

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🐙 GitHub

Skills

Python | MySQL | MongoDB |
Machine Learning | NLP | Data
Viualization | PowerBI

Education

**IIT-M Advanced Programming
Professional & Master Data Science,**
, IIT-M GUVI
December 2023 – present
Chennai, India

**Bachelor of Business
Administration,**
Sakthi Kailassh Women's College
April 2006 – April 2009 | Salem, India

Certificates

- IIT-M Advanced Programming
Professional & Master Data Science,
IIT-M GUVI

Professional Experience

Team Leader, Mawar Merah
August 2020 – present
Malaysia, Southeast Asia

Smart Class Coordinator, Educom
July 2012 – April 2016 | Salem, India

Projects

YouTube Data Harvesting and Warehousing

Key Skills: Python scripting, Data Collection, Streamlit, API integration, Data Management using SQL

- Extracted metadata (e.g., video titles, descriptions, view counts, comments) using APIs like YouTube Data API.
- Integrated with YouTube API to fetch large-scale data, such as video statistics, comments, and playlists.
- Processed and cleaned raw YouTube data to remove duplicates, standardize formats, and handle missing values.

Phonepe Pulse Data Visualization and Exploration

Key Skills: Github Cloning, Python, Pandas, MySQL, mysql-connector-python, Streamlit, and Plotly.

- Cleaned and transformed raw PhonePe Pulse datasets using **Pandas** for easier analysis.
- Mapped state-wise and city-wise transactions to understand geographic penetration.
- Identified peak transaction periods and high-growth states, driving strategic recommendations.
- Highlighted user behavior patterns like frequent small-value transactions in specific demographics.

Industrial Copper Modeling

Key Skills: Python scripting, Data Preprocessing, EDA, Streamlit

- Delivered a model with 98% that helped improve copper production efficiency by identifying optimal operational parameters.
- Reduced material wastage and optimized energy consumption, leading to cost savings for the company.
- Enabled real-time decision-making through the Streamlit app, improving operational processes.

Singapore Resale Flat Prices Predicting

Key Skills: Data Wrangling, EDA, Model Building

- Expertise in collecting and preprocessing housing data from multiple sources such as Singapore HDB resale flat databases and government open data portals.
- Skilled in conducting time series analysis to identify pricing trends, seasonal patterns, and market volatility in Singapore's housing market.
- Developed models that incorporate historical data, economic indicators, and market factors to predict future resale flat prices.