Phuvadol Worabutr

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Data Engineer with hands-on experience in large-scale (thousands of MB - TB) ETL processes using SQL and shell scripting. Proven ability to ingest data across on-premise and cloud platforms. Developed automated email monitoring for ETL pipelines using Shell Script. Participated in cost evaluation and POC for Microsoft Azure Databricks and performed ETL on Azure with C#. Holds foundational knowledge of Machine Learning, demonstrated through a gold price prediction project.

WORK EXPERIENCE

Data Engineer | Data Warehouse Team **June. 2024 - Present**
Mimo Tech Co., Ltd. (Subsidiary of AIS | OS)

- Developed ETL processes on On-Premise systems to prepare data for teams to use in analytics and to support campaign operations.
- Ingested data from both Data Lake and Data Warehouse into a Data Mart, and managed bi-directional data transfers between cloud and on-premise environments.
- Analyzed, resolved, and improved processes based on system issues (Issue Analysis and Resolution).
- Developed data monitoring scripts and implemented an automated email notification system.
- Cleansed unnecessary data from the database to enhance processing performance and overall system efficiency.
- Conducted a Proof of Concept (POC) for migrating processes from On-Premise to On-Cloud (Azure Databricks) using PySpark to assess the cost and feasibility of migration.

Internship

Assistant Data Analytics Professional | Channel Service **Nov. 2023 - Mar. 2024**
A-HOST Co., Ltd.

- Create a script for the ETL process and deploy it to Azure Functions to load data into Azure Blob Storage using C#.
- Create a script to categorize JSON files fetched from an API into categories for easy file retrieval, using Python.
- Check the business logic in the Macro script and compile the information into a document to serve as a guide for pipeline implementation.
- System Integration Testing (SIT) Reconcile ensures the accuracy of the information to be 100%.

Project

Gold Price Prediction Using Machine Learning on Flattened Time Series Data **Oct. 2023**

- Designed and implemented predictive models for daily gold price forecasting using multiple machine learning algorithms, including Artificial Neural Network (ANN), Lasso Regression, Linear Regression, Random Forest Regression, and Decision Tree Regression.
- Conducted experiments on different time windows (7-day, 14-day, and 30-day historical time series datasets) to evaluate the impact of input size on prediction accuracy; the 7-day dataset consistently outperformed the others.
- Achieved the lowest Mean Absolute Error (MAE) using Lasso Regression trained on the 7-day dataset, indicating strong short-term forecasting capabilities.
- Built and tested a 3-layer Artificial Neural Network model which, when applied to a simulated trading strategy, generated the highest returns among all models tested.

EDUCATION

- **Rajamangala University of Technology Suvarnabhumi** **2024**
  Faculty of Science and Technology, Major in **Data Science Management** | GPA 3.26
- **Pramaesakolsongkroh school** **2020**
  Science-Mathematics

Skills

- **Programing language** : SQL, Python, Shell script(Unix), C#, PL/SQL
- **Tools** : Greenplum, Postgres, Hue, Cloudera Data Platform, Cloudera Impala, Apache Hive, Azure Databrick, Docker, Power BI (DAX), Oracle