

MATHEWS P MATHEW

Tech Skills

- Python (Pandas, NumPy, Pandas, Matplotlib)
- Microsoft Power BI
- Tableau
- SQL (MySQL)
- Visualization on Web (Bokeh, D3js and Plotly)
- Working with Linux
- Mathematics (Statistics, Linear algebra, Probability, Matrices)
- DSA Concepts
- Working with Cloud Platforms (EC2, S3, Compute Engine, Cloud Storage, BigQuery, AWS Glue Building an ETL Pipeline using Apache Airflow)

Soft Skills

Leadership and Communication - Google Developer Student Clubs Lead for the year 2022 -23 of our college.

Teamwork - Part of IEEE Design Team - Kochi Subsection.

Time Management - I have been part of GDSC 2023 Wow core team and IEDC Summit 22 Designer

Creativity - Experience on Adobe Tools and Figma

Projects

E-Commerce Data Cleaning Project (Olist Dataset) – Pandas

- Developed a Pandas project to clean and preprocess 100,000+ e-commerce records, addressing missing values, duplicates, and format inconsistencies.
- Merged multiple datasets (orders, customers, products) and engineered features like total order value, reducing data quality issues by 95%.

Automated Daily Sales Analysis Pipeline – Google Cloud

- I set up a GCP pipeline where data is uploaded to a bucket, loaded into BigQuery via Airflow, and analyzed with a scheduled SQL view.
- In Looker Studio, I connected to BigQuery for easy data visualization.

SALES Dashboard – Power BI

- I used a sample dataset for creating an analysis project report in Powerbi
- My Power BI dashboard provides a dynamic sales report highlighting total sales, profit, and costs with visual insights into profit trends, shipment distribution, and product-wise performance.
- Users can interact with country and category slicers to explore regional data, including the top-performing salesperson in each region.

AWS Glue, S3,EC2 – A very basic data cleaning project.

- This project connects DynamoDB to AWS QuickSight via Athena by creating a data source that uses Lambda and Glue Data Catalog to query data.
- The data is then analyzed in QuickSight using dimensions and measures, with proper IAM permissions and S3 access configured.
- This setup allows easy visualization of NoSQL data stored in DynamoDB.

IOT Smart Home Energy Management System – BTech Major Project

- The system monitors and manages electricity usage in real time.
- Using CT and VT sensors with a NodeMCU ESP8266, data is sent to Firebase and accessed via a mobile app.
- Users can track predicted bills, edit device wattage, and receive alerts for high consumption.

Find My Job – BTech - Mini Project

- A Flutter App for job listing and applying.
- Transformed and filtered data by using aggregating and filtering function to improve reporting process

- Loaded and visualized data with Python to identify key business intelligences that can improve sales performance

Education

10th and 12th – Alphonsa Residential School, Bharananganam(ICSE, ISC)

BTech in Computer Science and Engineering – 2020-2024– St. Joseph's College of Engineering and Technology, Palai

Brototype Kochi – from August 2024 - Data Science