

# PORTFOLIO

BACHTIAR RIZKY ALAMSYAH

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 [Bachtiar Rizky Alamsyah](#)



Hello, I'm

# Bachtiar Rizky Alamsyah

Hello, my name is Bachtiar Rizky Alamsyah. I am a third year Information Systems student at Institut Teknologi Sepuluh Nopember Surabaya who is a fast learner, honest and responsible. I can work well in a team but also on my own because I do my best in everything. I am always up for new challenges because I like to learn something new. And I'm interested in learning about data analyst, data science, and machine learning.

## EXPERIENCE

### Machine Learning Cohort

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

2024

### Assistant Lecturer of Business Process Management

Institut Teknologi Sepuluh Nopember (ITS)

2024

# ScholarSeeks : Article Recommender Systems

## DESCRIPTION

ScholarSeeks is an Android-based recommender systems application that provides recommendations tailored to each user's preferences. Within the app, there are two machine learning models with TensorFlow designed to recommend articles to users based on content-based filtering and collaborative filtering. This project was developed as part of the requirements for Bangkit Academy 2024 Batch 1, and ScholarSeeks successfully achieved a spot in the top 50 Best Projects in the Product Track.

## MY ROLE

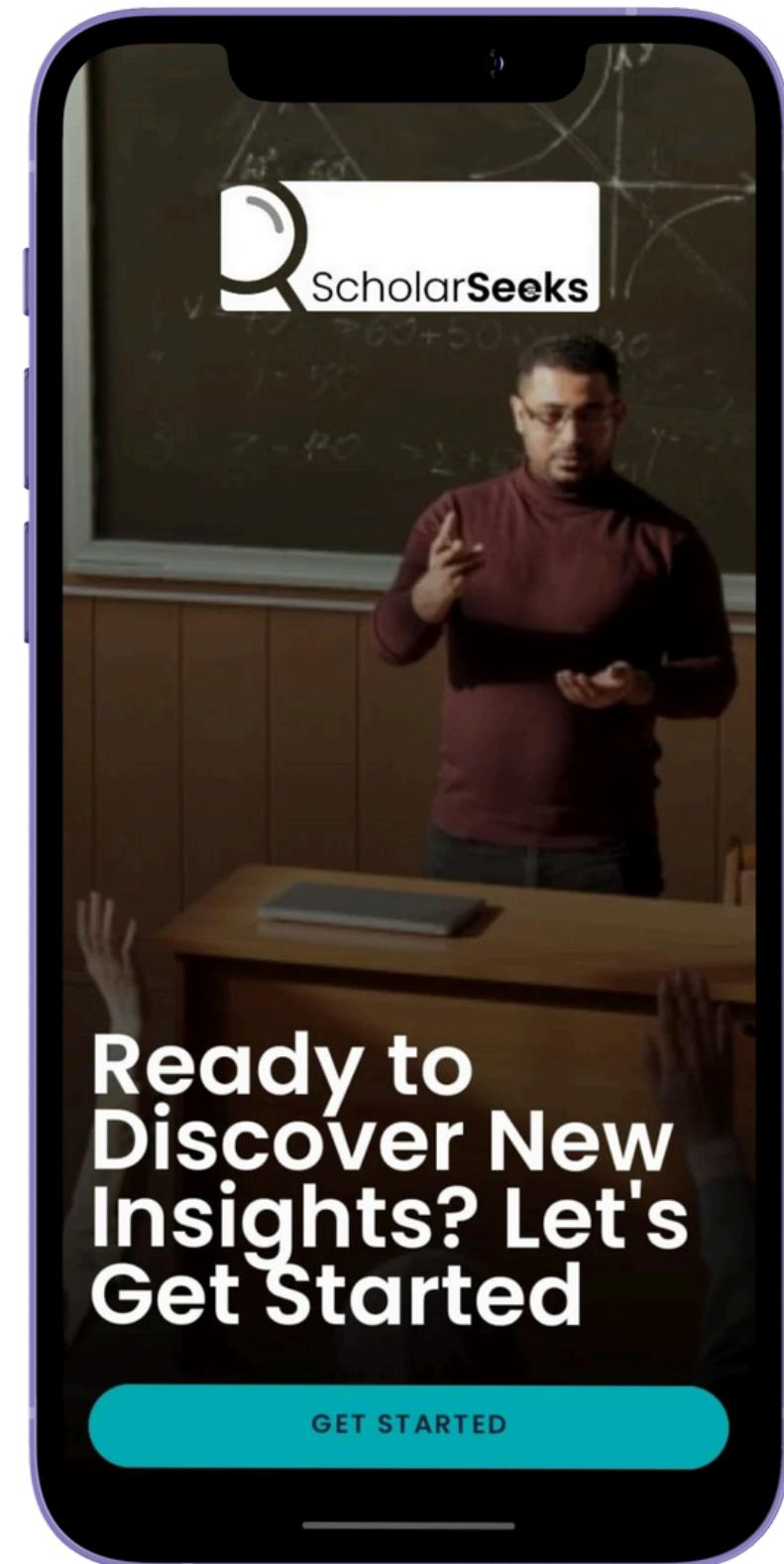
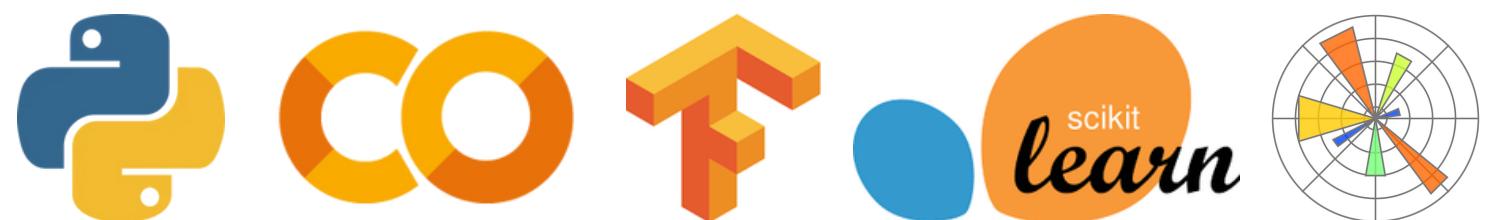
DATA PREPROCESSING

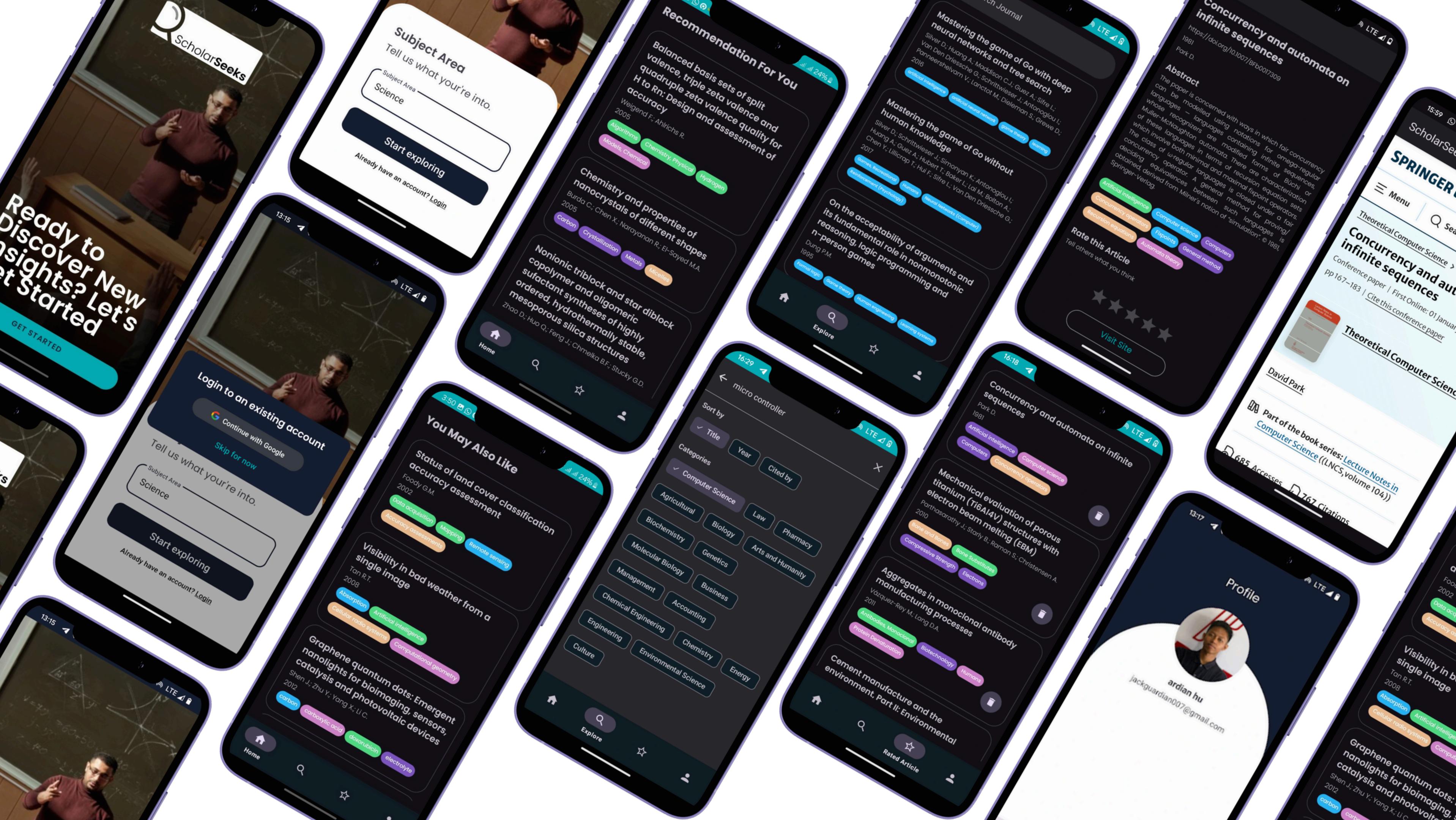
MODEL BUILDING

MODEL EVALUATION

GENERATING RECOMMENDATIONS

## TOOLS





# Forecast Tourism Visitor in Jakarta

## DESCRIPTION

This project is aimed at forecasting the number of visitors coming to Jakarta. The forecast is conducted using the SVR, RNN, LSTM and GRU algorithm with three scenarios: 80%Train-20%Test, 70%Train-30%Test, and 60%Train-40%Test. This forecast is made considering the influence of the total accommodations available and is projected over a period of 12 months or 1 year. This project is carried out to fulfill the requirements of the Predictive, Modelling, & Analytics course.

## MY ROLE

DATA PREPROCESSING

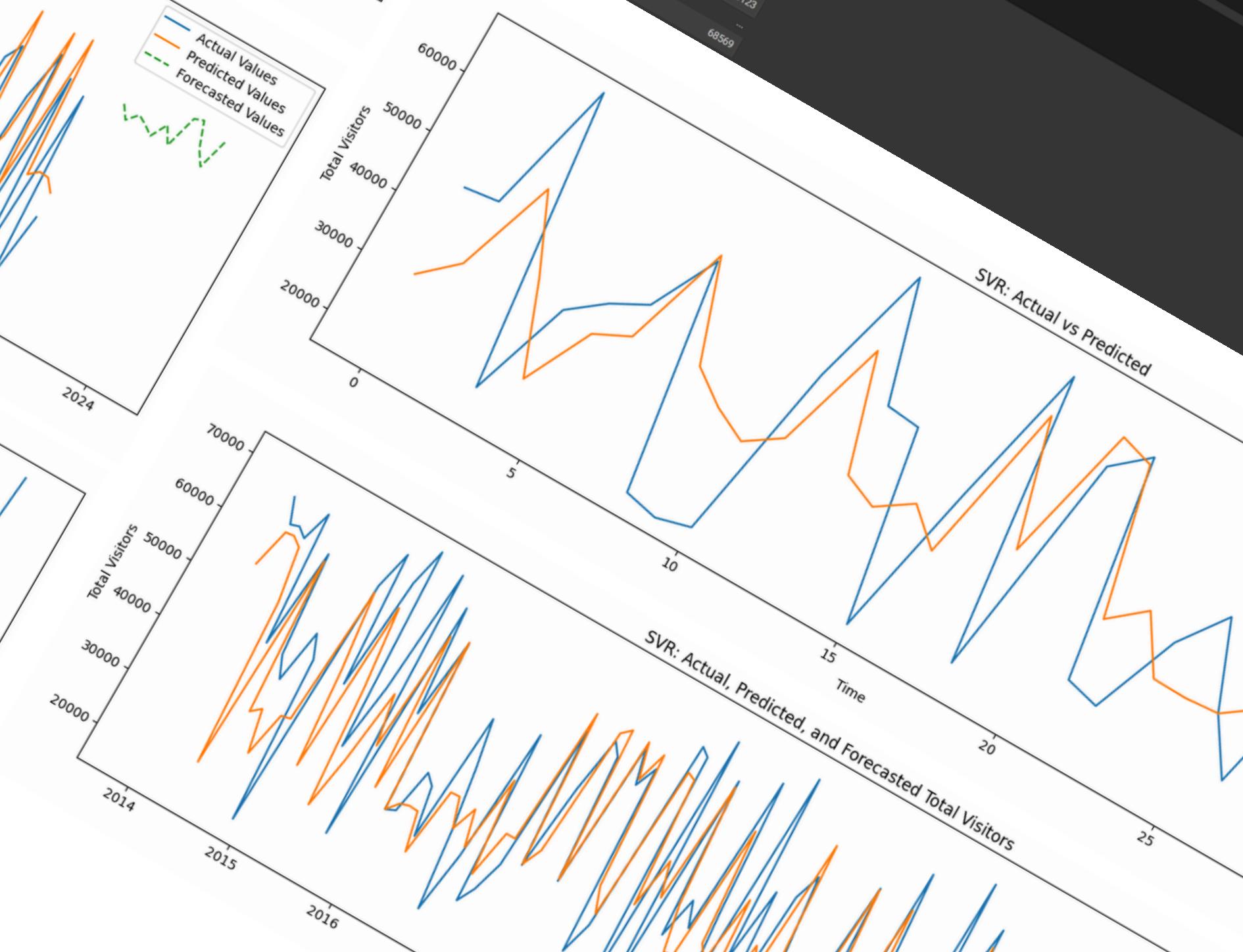
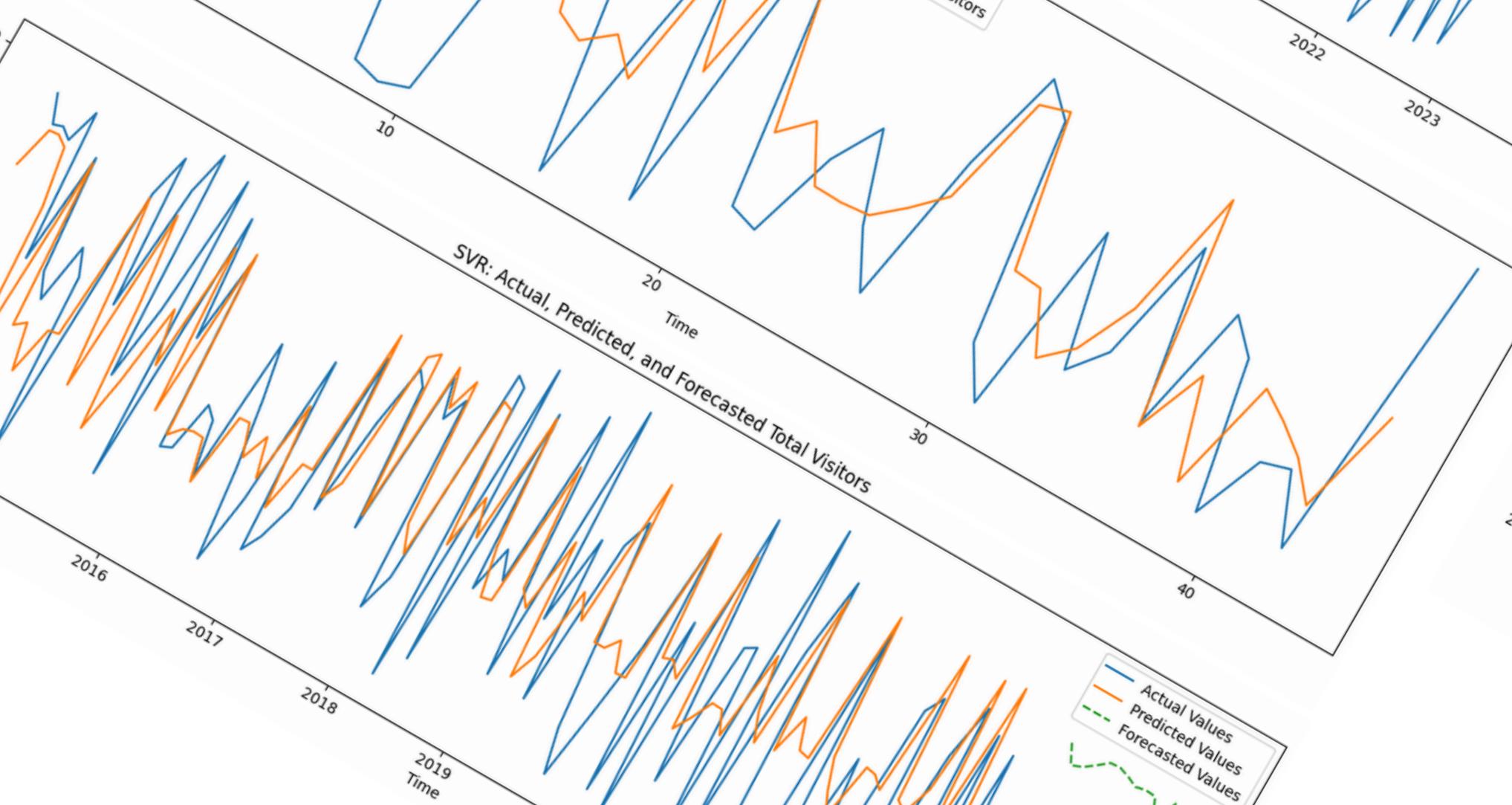
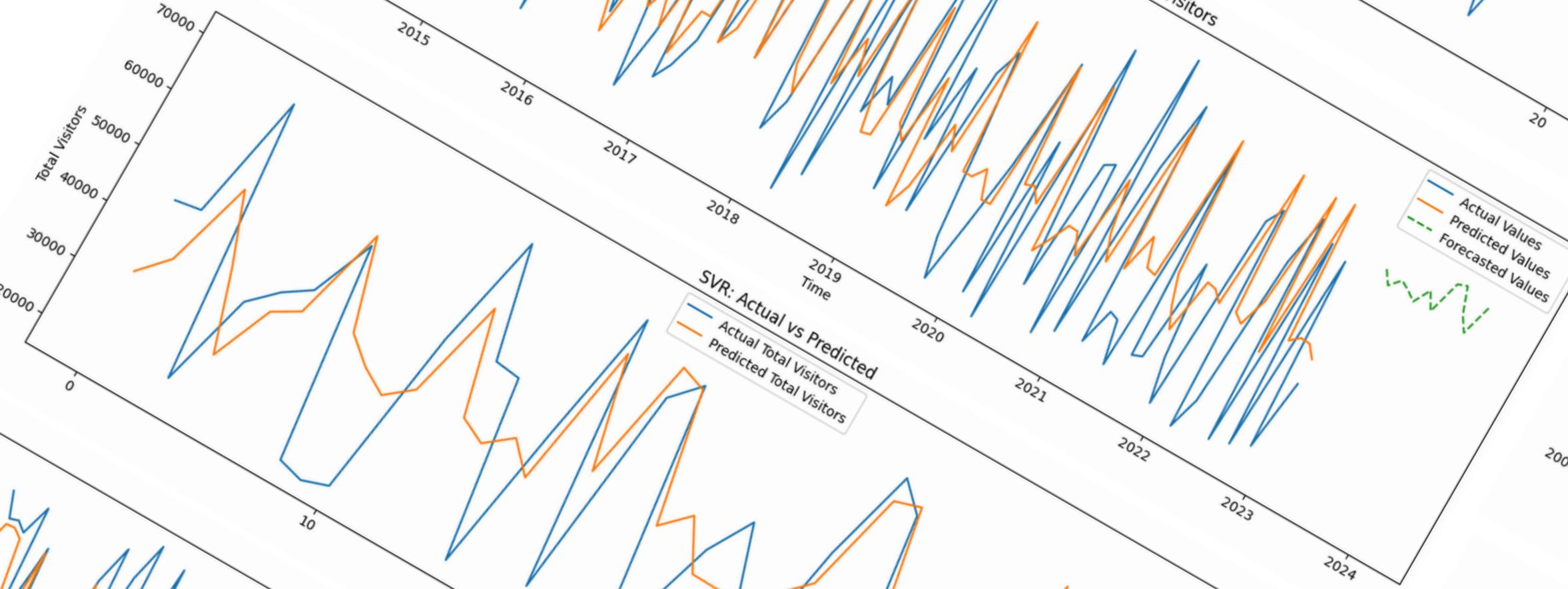
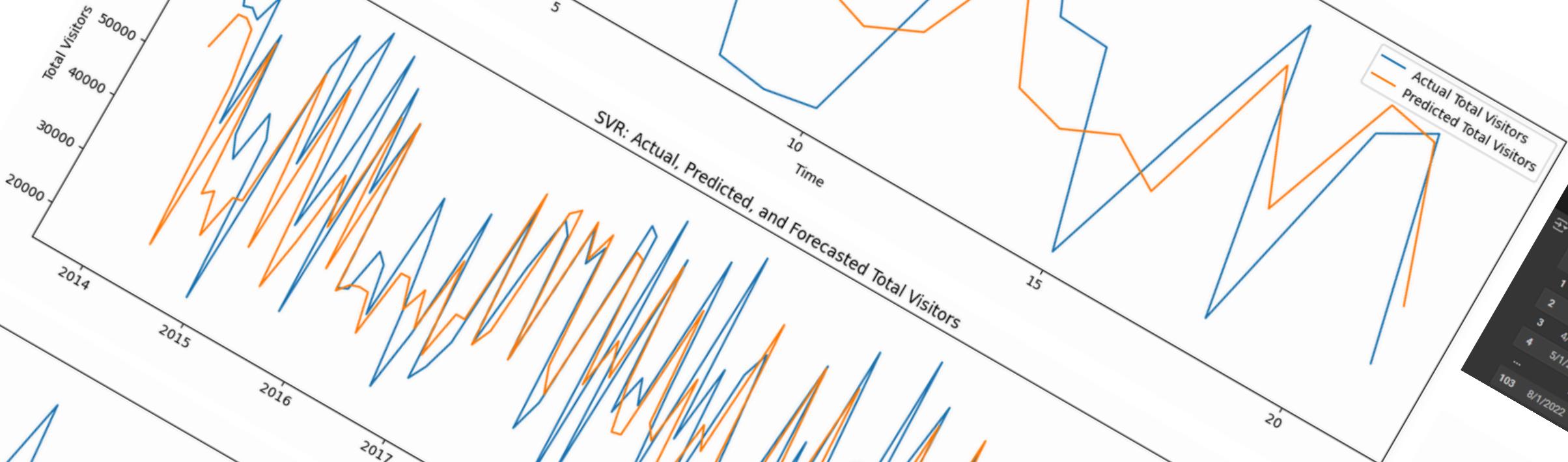
MODEL BUILDING

MODEL EVALUATION

FORECASTING

## TOOLS





```
# Import library
import pandas as pd
import numpy as np
import sklearn.metrics as sm
import train_test_split
from sklearn.model_selection import train_test_split
from sklearn.svm import SVR
from sklearn.metrics import mean_squared_error, mean_absolute_error, mean_absolute_percentage_error
from sklearn.preprocessing import MinMaxScaler
from sklearn.model_selection import GridSearchCV
from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import cross_val_score
from sklearn.utils import shuffle
import matplotlib.pyplot as plt

[ ] # Melakukan load dataset
data_url = "https://raw.githubusercontent.com/bachtiarrizkyal/Dataset/main/Jakarta%202015%20-%202022.csv"
# Menyimpan dataset ke dataframe
df = pd.read_csv(data_url)

[ ]
```

	datetime	total_visitor	total_accomodation
0	1/1/2014	193017	16332
1	2/1/2014	185851	17101
2	3/1/2014	204004	17438
3	4/1/2014	186373	17943
4	5/1/2014	190716	18123
...	...	...	...
103	8/1/2022	121438	68569

# Diagnostic Analysis and Stock Forecasting of PT. Telkom Indonesia

## DESCRIPTION

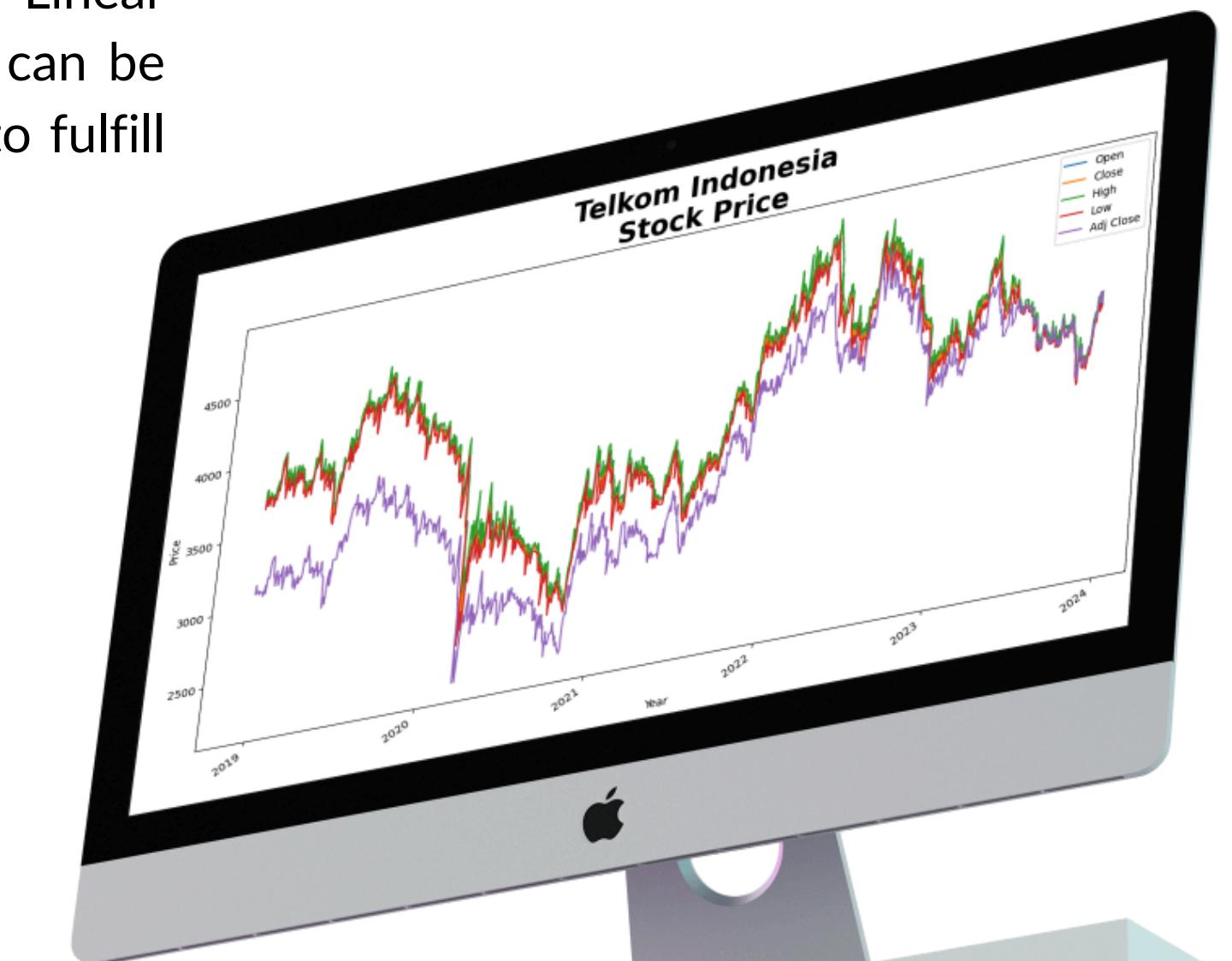
This project includes an analysis of the PT. Telkom Indonesia stock dataset, which explains data patterns or trends, data relationships, and outliers in the data. Additionally, it includes forecasting for the dataset using Linear Regression. This project helps in determining trading strategies that can be adopted under certain market conditions. This project is carried out to fulfill the requirements of the Data Analytics & Diagnostics course.

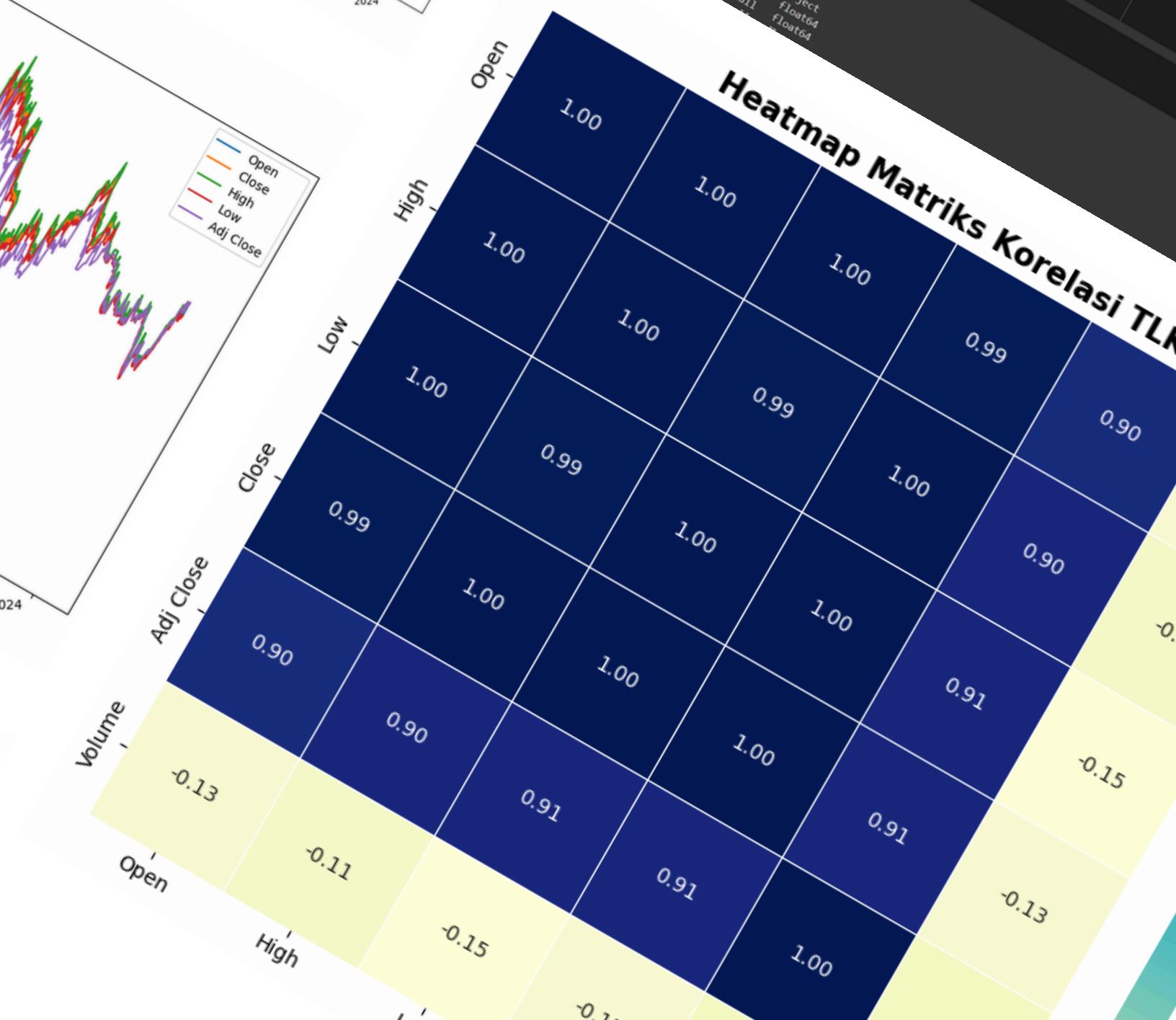
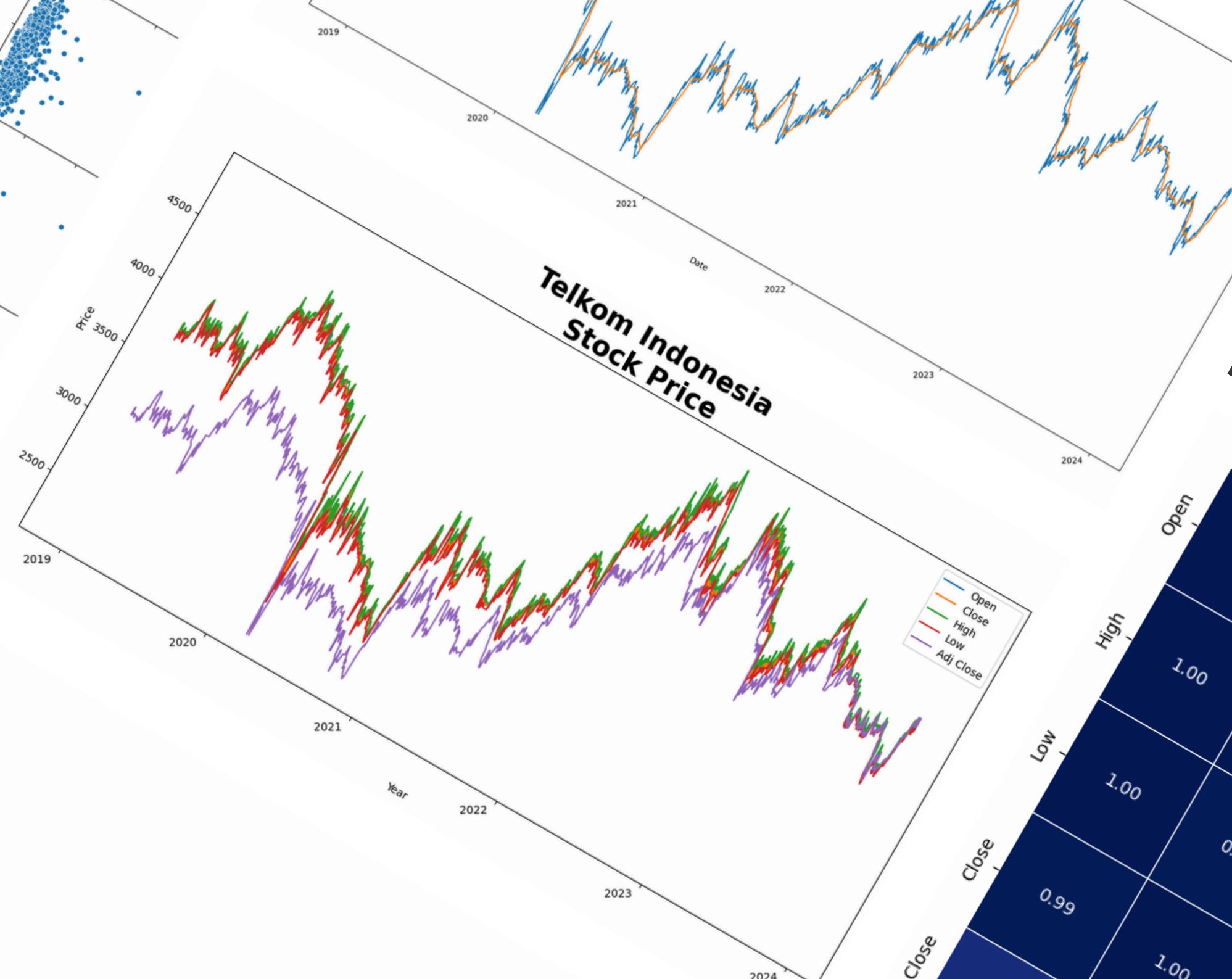
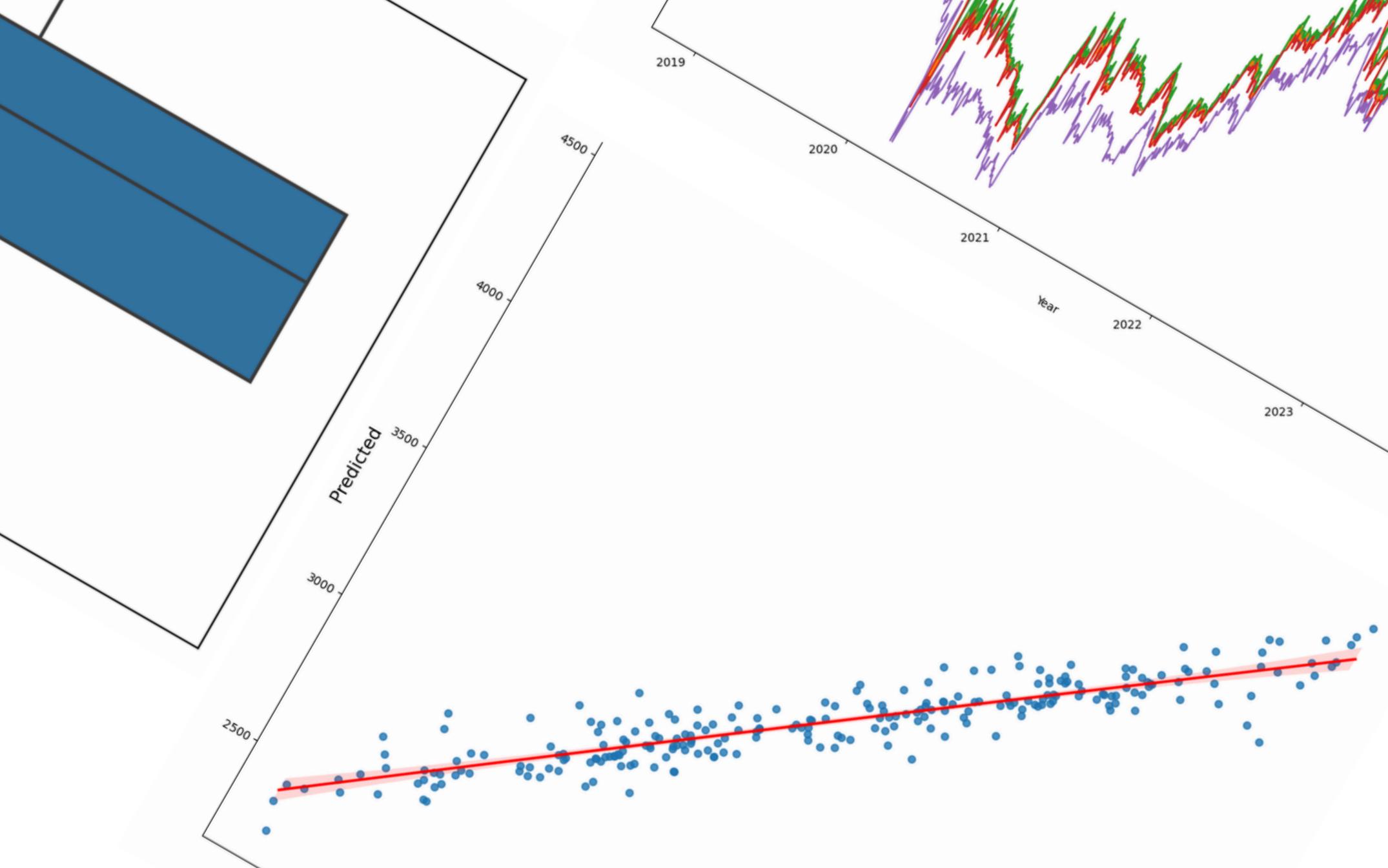
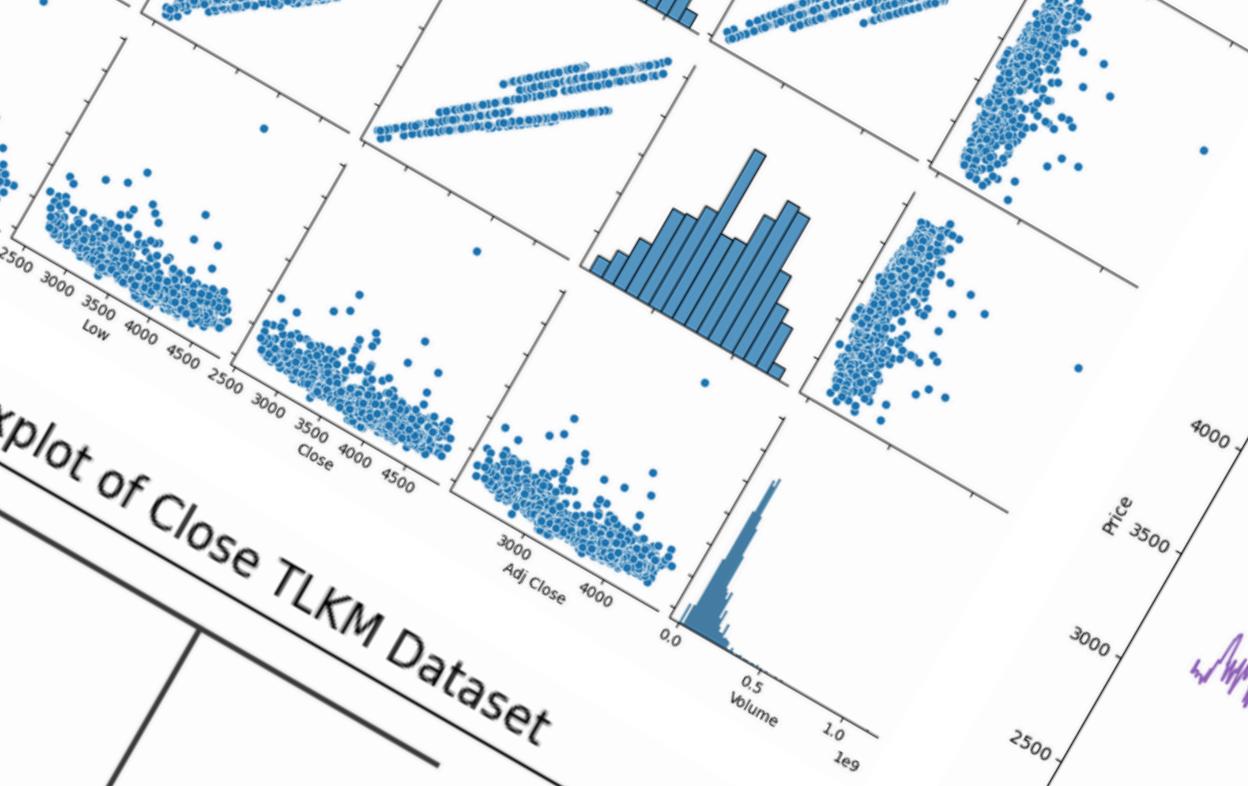
## MY ROLE

DATA DIAGNOSTICS    DATA PREPROCESSING

MODEL BUILDING    MODEL EVALUATION    FORECASTING

## TOOLS





```
# Menampilkan informasi terkait dataset tlkm
tlkm.info()

#> <class 'pandas.core.frame.DataFrame'>
#> RangeIndex: 1234 entries, 0 to 1233
#> Data columns (total 7 columns):
#>   Column    Dtype   Null Count
#>   ---      ---   -----
#>   0 Date     object  1234 non-null
#>   1 Open     float64 1233 non-null
#>   2 High    float64 1233 non-null
#>   3 Low     float64 1233 non-null
#>   4 Close   float64 1233 non-null
#>   5 Adj Close float64 1233 non-null
#>   6 Volume  float64 1233 non-null
#> dtypes: float64(6), object(1)
#> memory usage: 67.6+ KB

[ ] # Melakukan drop pada baris yang terdapat data yang kosong pada dataframe tlkm
tlkm = tlkm.dropna()

[ ] # Menampilkan informasi kembali terkait dataframe tlkm
tlkm.info()

#> <class 'pandas.core.frame.DataFrame'>
#> Int64Index: 1233 entries, 0 to 1233
#> Data columns (total 7 columns):
#>   Column    Dtype   Null Count
#>   ---      ---   -----
#>   0 Date     object  1233 non-null
#>   1 Open     float64 1233 non-null
#>   2 High    float64 1233 non-null
```

# KuyFit: Sports Field Rental Service Website

## DESCRIPTION

Design and development of the KuyFit application began with creating the GUI storyboard, Use Case Model, Robustness Diagram, and Test Plans. This application was built using the PHP framework Laravel and the Tailwind CSS framework. This team project was developed to fulfill the requirements of the Software Design and Development course.

## MY ROLE

ROBUSTNESS DIAGRAM

USE CASE DIAGRAM

PROTOTYPING

FRONT END DEVELOPMENT

## TOOLS





# PT. Pegadaian Dashboard

## DESCRIPTION

The PT Pegadaian dashboard was created using Microsoft Power BI, employing the IT Balanced Scorecard mapping method. This dashboard features four KPI perspectives: corporate contribution, future orientation, operational excellence, and user orientation. Built using a dummy dataset, the dashboard is visualized through various diagrams and charts available in Microsoft Power BI. This team project was developed to fulfill the requirements of the IT Organization Evaluation Management course.

## MY ROLE

CREATE DATASET

DATA VISUALIZATION

## TOOLS



# USER ORIENTATION

Jumlah Pengguna Aktif PASSION  
1134994

Jumlah Waktu Penggunaan Aplikasi  
1248606

Jumlah Sesi Pengguna  
116643

(UO-4) Waktu Rata-Rata Penggunaan  
Aplikasi  
10.38  
20.76

# CORPORATE CONTRIBUTION

Total Anggaran IT yang Terealisasi  
192.94M

Total Pendapatan Produk Baru  
1.40bn

Total Biaya Produksi  
2.58bn

Total Inovasi IT  
321

# OPERATIONAL EXCELLENCE

96.65%

Persentase Indeks Ketersediaan IT (OE - KP12)  
99.52%

Persentase Peningkatan Efisiensi dalam Proses Operasional  
(OE - KP13)  
61%

Persentase Waktu Penyelesaian Respon Masalah (OE - KP14)  
47.31%

Persentase Waktu Penyelesaian Respon Masalah (OE - KP15)  
59.44%

Target Persentase Waktu Respon <50ms  
(OE - KP11)  
87.69%

# INNOVATION

321

Average of Inovasi IT

2019 2020 2021 2022 2023

95.30% 95.37% 96.21% 95.98%

95.04%

Tahun

2019 2020 2021 2022 2023

95.30% 95.37% 96.21% 95.98%

Average of Percentase Tingkat Keamanan Sistem

2019 2020 2021 2022 2023

90.00% 90.00% 90.00% 90.00% 90.00%

95.96% 95.04%

Tahun

2019 2020 2021 2022 2023

90.00% 90.00% 90.00% 90.00% 90.00%

95.30% 95.37% 96.21% 95.98%

Average of Efek Pelatihan Terhadap Susunan

2019 2020 2021 2022 2023

56.95% 70.35% 61.81% 66.37% 72.36%

Tahun

2019 2020 2021 2022 2023

56.95% 70.35% 61.81% 66.37% 72.36%

Average of Efek Pelatihan Staff IT

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Tahun

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Average of Efek Pelatihan Staff IT

2019 2020 2021 2022 2023

56.95% 70.35% 61.81% 66.37% 72.36%

Tahun

# MamYuk: UI for Food Ordering and Seat Reservation App at ITS Cafeteria

## DESCRIPTION

The PT Pegadaian dashboard was created using Microsoft Power BI, employing the IT Balanced Scorecard mapping method. This dashboard features four KPI perspectives: corporate contribution, future orientation, operational excellence, and user orientation. Built using a dummy dataset, the dashboard is visualized through various diagrams and charts available in Microsoft Power BI. This team project was developed to fulfill the requirements of the IT Organization Evaluation Management course.

## MY ROLE

EMPHATIZE    DEFINE    IDEATE    PROTOTYPING  
TESTING EVALUATION

## TOOLS



**MAMYUK**

**Selamat Datang di MamYuk!**

Cari makanan atau kantin

Rekomendasi Kantin

Kantin Informatika ★ 4.8  
Kantin Pusat ★ 4.8  
Kantin Geo ★ 4.8

Menu Populer Hari Ini

Nasi Ayam Geprek  
Kedai Mak Nanun  
Kantin Informatika

Soto Ayam Lamongan  
Kedai Pak Joko  
Kantin Geomatika

Sego Njamoer Jumbo  
Kedai Sego Njamoer  
Kantin Pusat

Rp 15.000  
Rp 13.000  
Rp 8.000

Beranda Peta Kursi Profil

Peta ITS

Pilih Kantin

Kantin Informatika

Kantin Arsitektur ★★★★ 4  
Kantin Geomatika ★★★★ 5  
Kantin Elektro ★★★★ 4.4  
Kantin Kimia ★★★★ 3.5

Kantin Informatika  
5 Kursi Tersedia

Kantin Pusat  
11 Kursi Tersedia

Kantin Geomatika  
5 Kursi Tersedia

Kantin Elektro  
15 Kursi Tersedia

Kantin Kimia  
9 Kursi Tersedia

Rp 15.000

Pesan

Kedai Mak Nanun  
Kantin T. Informatika

Juni, 5 09:10

Dipilih Dipesan Tersedia

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Lanjut

Kedai Mak Nanun  
Kantin T. Informatika

Pesanan Anda

Nasi Pecel Rp 15.000 1 + Es Jeruk Rp 5.000 1 +

Metode Pembayaran

Gopay OVO ShopeePay DANA

Dine In Takeaway

Rp 20.000

Pilih Kursi Lanjut

Riwayat

Nasi Pecel Sisa: 29 Kedai Mak Nanun Es Jeruk Rp 5.000 Pesan Kembali

Nasi Kuning Sisa: 30 Kedai Mak Nanun Nasi Pecel Rp 15.000 Pesan Kembali

Nasi Goreng Sisa: 30 Kedai Mak Nanun Nasi Pecel Rp 15.000 Pesan Kembali

Tambah Tambah

Beranda Peta Kursi Profil

Pertanyaan yang Sering

Bagaimana cara memesan makanan?

Bagaimana jika ingin memilih opsi dine in?

Apakah bisa menggunakan QRIS?

Maksimal pemilihan durasi untuk reservasi berapa jam?

Apa perbedaan dine in dan take away?

Bagaimana jika ingin mencancel pesanan?

Bagaimana jika ingin menambah pesanan?

Rese...

Kedai Mak Nanun  
Kantin T. Informatika

Pilih Tanggal Kamis 1 Jumat 2 Senin 3 Selasa 4 Rabu 5

Pilih Durasi

00 : 10 Batal Lanjut

Di Tempat

Illustration of a person pointing upwards.

Pesanan Selesai

Sedang Diproses LANGKAH 1

Siap Diambil LANGKAH 2

Kedai Mak Nanun



**THANK YOU**