



PORTFOLIO

SHENDI TEUKU

D A T A A N A L Y S T



1

2

3

4

5

6

7

8

9

10

11

Hello,

I'm Shendi Teuku

Data Analyst

Dedicated and detail-oriented Data Analyst with a strong background in statistical analysis, data visualization, and machine learning. Adept at translating complex data sets into actionable insights, driving informed decision-making. Proficient in programming languages such as Python, with hands-on experience in data manipulation, cleaning, and exploratory data analysis (EDA).



1

2

3

4

5

6

7

8

9

10

11

Education



2017-2020 SMAN 2 Madiun

As Science Department, I'm focus on various subjects including learning science, statistics and math.



2021-2024 PGRI Madiun University

Specializing in diverse areas such as software development, algorithm design, database management, and emerging technologies like artificial intelligence and the Internet of Things.

1

2

3

4

5

6

7

8

9

10

11

Experience



Kampus Merdeka

Study Independent at PT Greatedu Global Mahardika as Data Analyst

Cultivated a strong foundation in data analysis, statistical modeling, and data visualization. My coursework included comprehensive studies in machine learning, database management, and advanced statistical methods, providing me with the analytical skills needed for interpreting complex datasets.



Badan Nasional Sertifikasi Profesi (BNSP)

Associate Data Scientist

Certified Associate Data Scientist, this certification attests to my expertise in areas such as statistical analysis, machine learning, and data interpretation. Through rigorous examination and practical assessments, I have demonstrated the ability to apply data science methodologies to solve complex problems, contributing to informed decision-making.

1

2

3

4

5

6

7

8

9

10

11

Experience



digital talent

Digital Talent Kominfo

Oracle Academy as Database Design

Specializing in the comprehensive aspects of database management. This program has equipped me with in-depth knowledge and practical skills in utilizing Oracle technologies for efficient data organization, storage, and retrieval. Covering critical topics such as schema design, normalization, indexing, and SQL querying.

ORACLE®
Academy

Digital Talent Kominfo

Oracle Academy as Database Programming

Focusing on honing skills in programming within the Oracle database environment. This program has provided me with a comprehensive understanding of database programming concepts, SQL syntax and querying.

1

2

3

4

5

6

7

8

9

10

11

Skills & Abilites



1

2

3

4

5

6

7

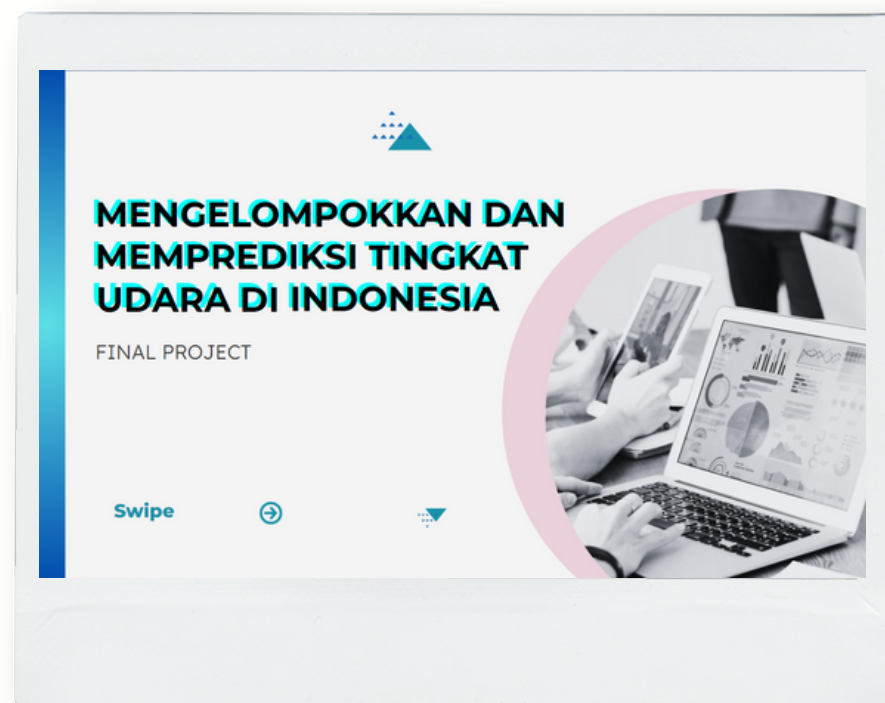
8

9

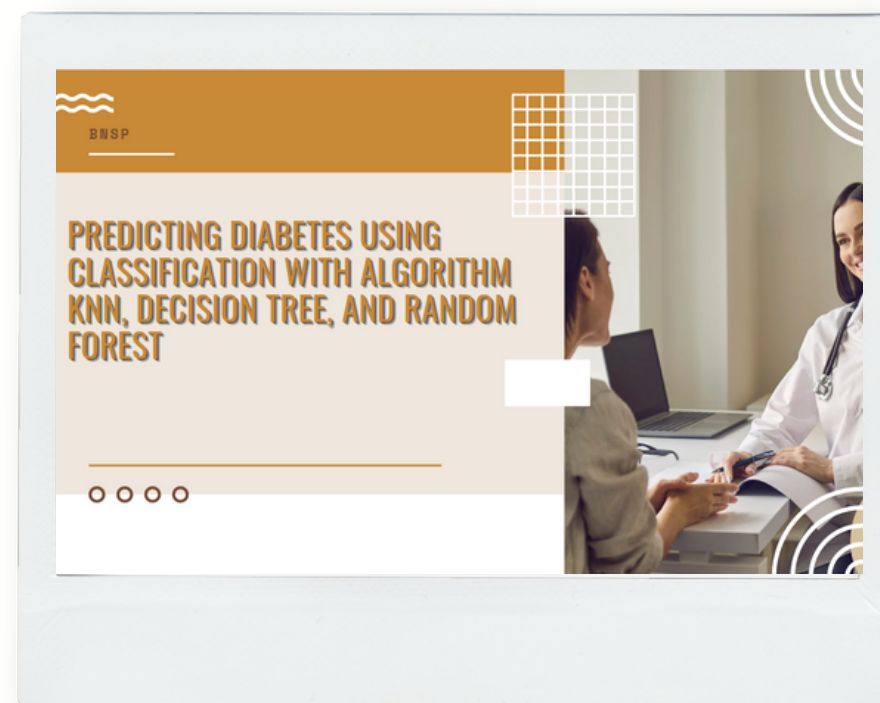
10

11

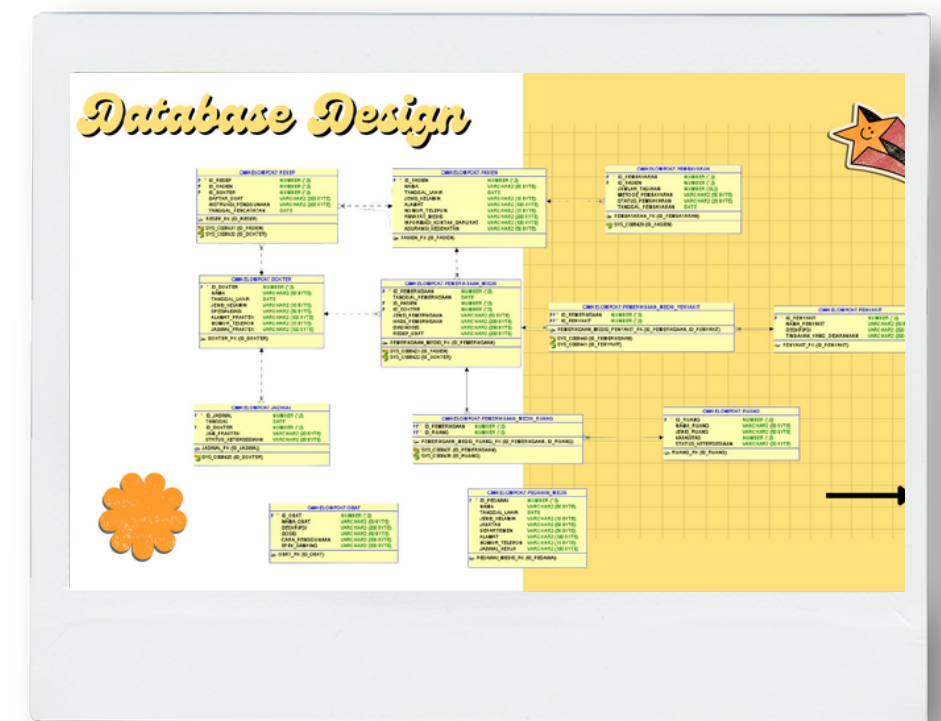
Relevant Project



Predictive Model for Air Quality
in Indonesia using Machine
Learning with Clustering and
Regression



Predictive Model for Diabetes
using Classification Machine
Learning - KNN, Decision Tree,
and Random Forest



Healthcare Service Database
Design and Programming

1

2

3

4

5

6

7

8

9

10

11

Predictive Model for Air Quality in Indonesia

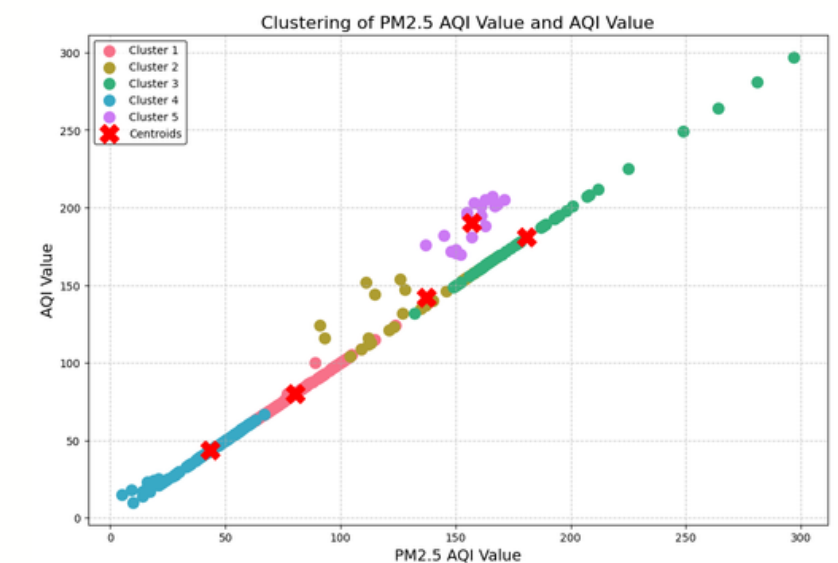
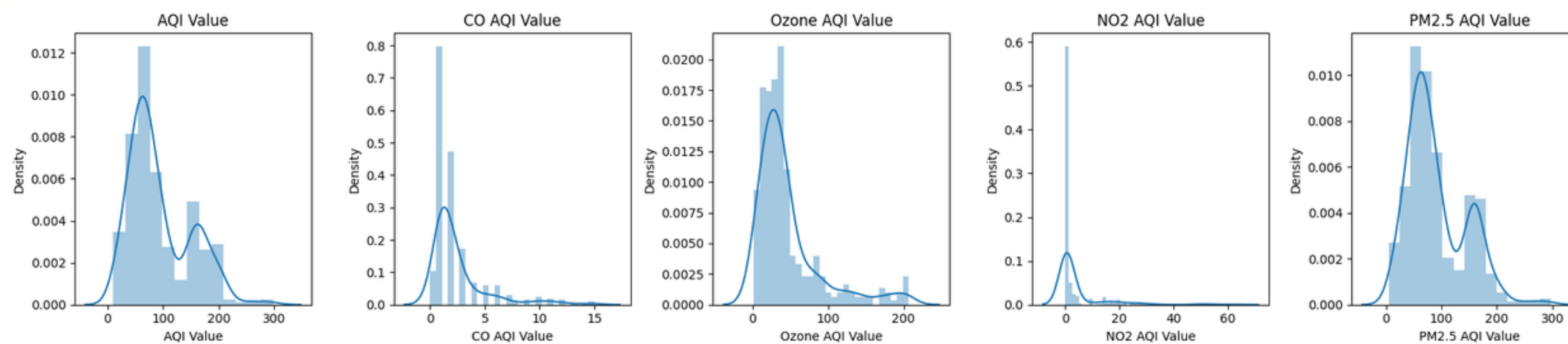
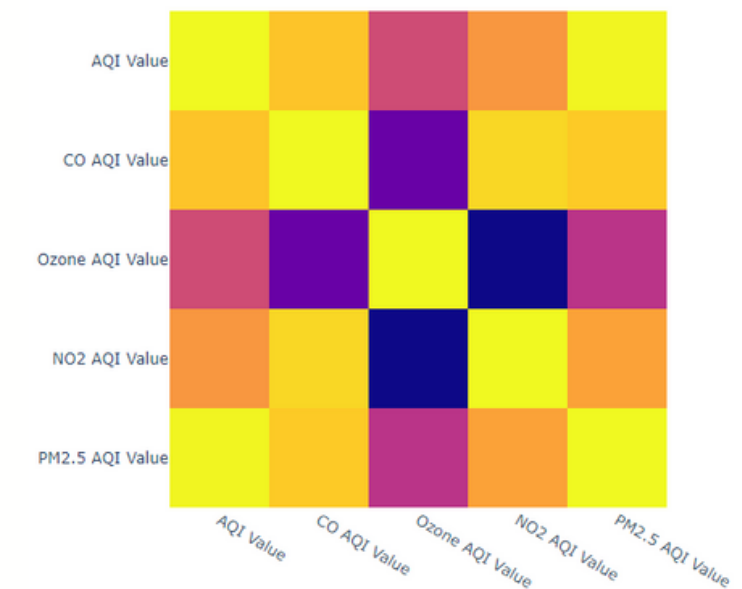
using Machine Learning with Clustering and Regression

Descriptive Analytics

```
[ ] 1 df = pd.read_csv("https://raw.githubusercontent.com/ddapun/Dataset_Kelompok1/main/global%20air%20pollution%20dataset.csv")
    2 df
```

	Country	City	AQI Value	AQI Category	CO AQI Value	CO AQI Category	Ozone AQI Value	Ozone AQI Category	NO2 AQI Value	NO2 AQI Category	PM2.5 AQI Value	PM2.5 AQI Category
0	Russian Federation	Praskoveya	51	Moderate	1	Good	36	Good	0	Good	51	Moderate
1	Brazil	Presidente Dutra	41	Good	1	Good	5	Good	1	Good	41	Good
2	Italy	Priolo Gargallo	66	Moderate	1	Good	39	Good	2	Good	66	Moderate
3	Poland	Przasnysz	34	Good	1	Good	34	Good	0	Good	20	Good
4	France	Punaaui	22	Good	0	Good	22	Good	0	Good	6	Good
...
23458	India	Gursahaiganj	184	Unhealthy	3	Good	154	Unhealthy	2	Good	184	Unhealthy
23459	France	Sceaux	50	Good	1	Good	20	Good	5	Good	50	Good
23460	India	Mormugao	50	Good	1	Good	22	Good	1	Good	50	Good
23461	United States of America	Westerville	71	Moderate	1	Good	44	Good	2	Good	71	Moderate
23462	Malaysia	Marang	70	Moderate	1	Good	38	Good	0	Good	70	Moderate

23463 rows x 12 columns



Link to Google Colab:

<https://colab.research.google.com/drive/1ZEg6R28ZvkgNriRuArxdGE7FtJM5UrhK?usp=sharing>

1

2

3

4

5

6

7

8

9

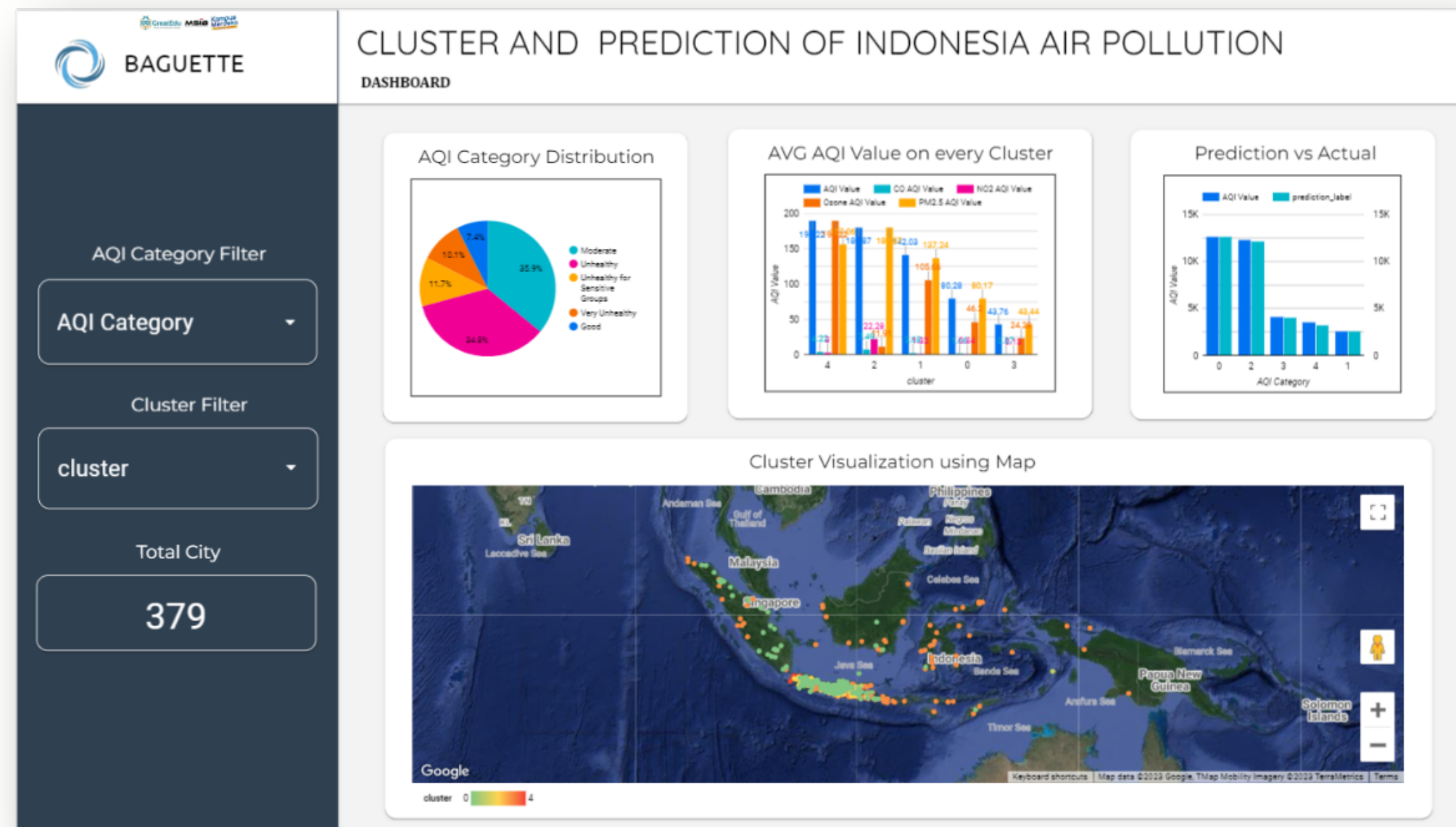
10

11

Predictive Model for Air Quality in Indonesia

using Machine Learning with Clustering and Regression

Visualizaton



Link to Google Data Studio:

<https://colab.research.google.com/drive/1ZEg6R28ZvkgNriRuArxdGE7FtJM5UrhK?usp=sharing>

1

2

3

4

5

6

7

8

9

10

11

Predictive Model for Diabetes

using Classification Machine Learning - KNN, Decision Tree, and Random Forest

▼ K-Nearest Neighbor (KNN)

KNN adalah salah satu algoritma paling sederhana dalam machine learning. Model KNN beroperasi dengan cara mencari titik data terdekat dalam ruang fitur untuk membuat prediksi.

Membuat model

```
1 knn_model = KNeighborsClassifier()
2 knn_model.fit(x_train, y_train)
3 y_pred = knn_model.predict(x_test)
4 y_pred_train = knn_model.predict(x_train)
```

Evaluasi model

```
[ ] 1 print("----Model Evaluation on Test Data----")
2 print()
3 print('Confusion Matrix:\n',confusion_matrix(y_test,y_pred))
4 print()
5 print('Classification Report:\n',classification_report(y_test,y_pred))
6 print("-----")
7 print()
8 print("----Model Evaluation on Train Data----")
9 print()
10 print('Confusion Matrix:\n',confusion_matrix(y_train,y_pred_train))
11 print()
12 print('Classification Report:\n',classification_report(y_train,y_pred_train))
13 print("-----")
14 print()
15 print(f"Accuracy on Test Data:{accuracy_score(y_test,y_pred):.4f}")
16 print(f"Accuracy on Train Data:{accuracy_score(y_train,y_pred_train):.4f}")
```

----Model Evaluation on Test Data----

```
Confusion Matrix:
[[89 21]
 [19 25]]

Classification Report:
      precision    recall  f1-score   support

     0       0.82     0.81     0.82     110
     1       0.54     0.57     0.56     44

 accuracy      0.68     0.69     0.74     154
 macro avg     0.68     0.69     0.69     154
 weighted avg   0.74     0.74     0.74     154
```

----Model Evaluation on Train Data----

```
Confusion Matrix:
[[347 43]
 [ 76 148]]

Classification Report:
      precision    recall  f1-score   support

     0       0.82     0.89     0.85     390
     1       0.77     0.66     0.71     224

 accuracy      0.80     0.78     0.81     614
 macro avg     0.80     0.78     0.79     614
 weighted avg   0.80     0.81     0.80     614
```

Accuracy on Test Data:0.7403
Accuracy on Train Data:0.8062

▼ Decision Tree

Membuat model

```
[ ] 1 dt_model = DecisionTreeClassifier()
2 dt_model.fit(x_train, y_train)
3 y_pred = dt_model.predict(x_test)
4 y_pred_train = dt_model.predict(x_train)
```

Evaluasi model

```
[ ] 1 print("----Model Evaluation on Test Data----")
2 print()
3 print('Confusion Matrix:\n',confusion_matrix(y_test,y_pred))
4 print()
5 print('Classification Report:\n',classification_report(y_test,y_pred))
6 print("-----")
7 print()
8 print("----Model Evaluation on Train Data----")
9 print()
10 print('Confusion Matrix:\n',confusion_matrix(y_train,y_pred_train))
11 print()
12 print('Classification Report:\n',classification_report(y_train,y_pred_train))
13 print("-----")
14 print()
15 print(f"Accuracy on Test Data: {accuracy_score(y_test,y_pred):.4f}")
16 print(f"Accuracy on Train Data: {accuracy_score(y_train,y_pred_train):.4f}")
```

----Model Evaluation on Test Data----

```
Confusion Matrix:
[[83 27]
 [16 28]]

Classification Report:
      precision    recall  f1-score   support

     0       0.84     0.75     0.79     110
     1       0.51     0.64     0.57     44

 accuracy      0.67     0.70     0.72     154
 macro avg     0.67     0.70     0.68     154
 weighted avg   0.74     0.72     0.73     154
```

----Model Evaluation on Train Data----

```
Confusion Matrix:
[[390  0]
 [  0 224]]

Classification Report:
      precision    recall  f1-score   support

     0       1.00     1.00     1.00     390
     1       1.00     1.00     1.00     224

 accuracy      1.00     1.00     1.00     614
 macro avg     1.00     1.00     1.00     614
 weighted avg   1.00     1.00     1.00     614
```

Accuracy on Test Data: 0.7208
Accuracy on Train Data: 1.0000

Link to Google Colab:

<https://colab.research.google.com/drive/1ZEg6R28ZvkgNriRuArxdGE7FtJM5UrhK?usp=sharing>

1

2

3

4

5

6

7

8

9

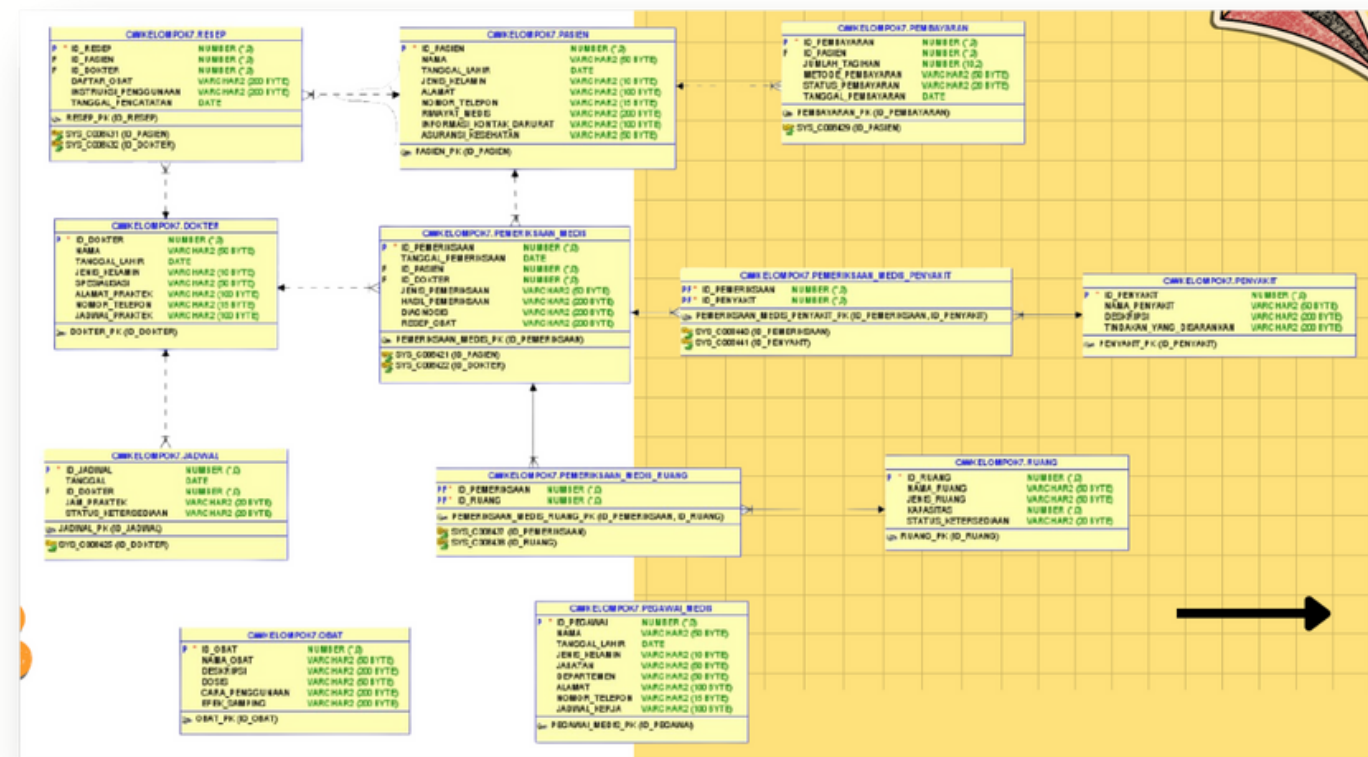
10

11

Healthcare Service

Database Design and Programming

Database Design



Query

VIEWS

-- Membuat view untuk menampilkan informasi pasien beserta riwayat medis

CREATE VIEW View_Pasien_Riwayat_Medis AS

SELECT p.ID_Pasien, p.Nama, p.Tanggal_Lahir, p.Jenis_Kelamin, p.Alamat, p.Nomor_Telepon, p.Riwayat_Medis, p.Informasi_Kontak_Darurat, p.Asuransi_Kesehatan, pm.Tanggal_Pemeriksaan, pm.Jenis_Pemeriksaan, pm.Hasil_Pemeriksaan, pm.Diagnosis, pm.Resep_Obat

FROM Pasien p

LEFT JOIN Pemeriksaan_Medis pm ON p.ID_Pasien = pm.ID_Pasien;

-- Menampilkan informasi pasien beserta riwayat medis

SELECT * FROM View_Pasien_Riwayat_Medis;

ID_PASIENT	NAMA	TANGGAL_LAHIR	JENIS_KELAMIN	ALAMAT	NOMOR_TELEPON	RIWAYAT_MEDIS	INFORMASI_KONTAK_DARURAT	ASURANSI_KESHAZATAN	TANGGAL_PEMERIKSAAN	JENIS_PEMERIKSAAN	HASIL_PEMERIKSAAN	DIAGNOSIS	RESEP_OBAT
1	Sherry	01-Jan-1993	Laki-Laki	J. Rajin Seta	08124543890	Tidak ada riwayat medis	0811111111	Asuransi ABC	01-Jun-2024	Pemeriksaan Umum	Normal	Tidak ada masalah	Obat A, Obat B
2	Servananda	10-May-1980	Pemempuan	J. Cendro Wasti	082545078901	Riwayat alergi obat	0822222222	Asuransi XYZ	02-Jun-2023	Pemeriksaan Mata	Bula warna putih	Bula warna putih	Obat C
3	Mya	15-Sep-1978	Laki-Laki	J. Melati	083456789012	Riwayat operasi	0833333333	Asuransi PQR	03-Jun-2025	Pemeriksaan Bedah	Normal	Tidak ada masalah	Obat D, Obat E
4	Cindy	20-Apr-1992	Pemempuan	J. Jambu	084567890123	Tidak ada riwayat medis	0844444444	Asuransi DEF	04-Jun-2024	Pemeriksaan Anak	Normal	Tidak ada masalah	Obat F, Obat G
5	Adi	25-Jul-1980	Laki-Laki	J. Candi	085678901234	Riwayat penyakit jantung	0855555555	Asuransi GHI	05-Jun-2023	Pemeriksaan Gigi	Normal	Tidak ada masalah	Obat H

1

2

3

4

5

6

7

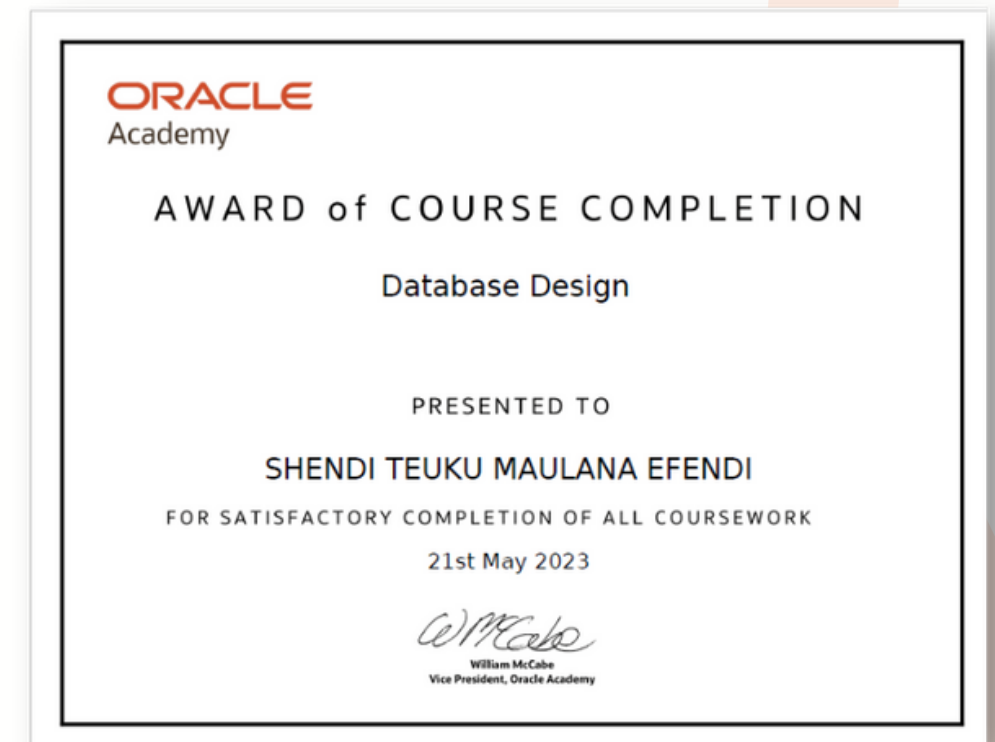
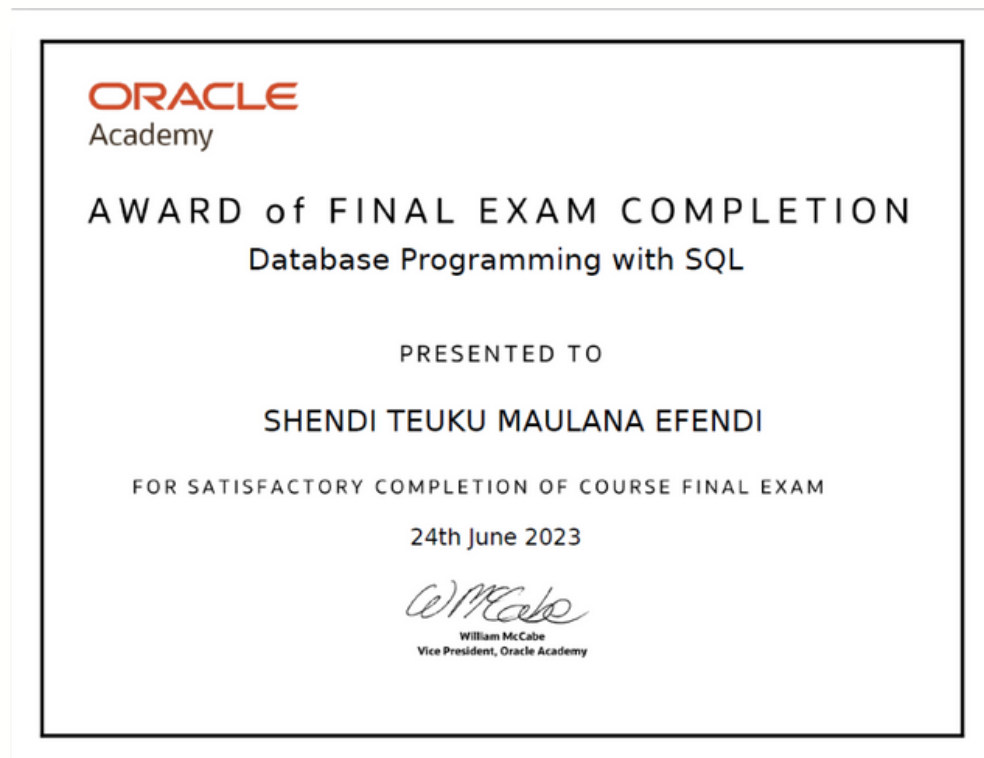
8

9

10

11

My Sertification





Thank you

Contact Details

Phone : +6289514851100

Address : *Madiun, East Java*

Email : *shendyteuku2@gmail.com*

Github : <https://github.com/shendyeff>

LinkedIn : <https://www.linkedin.com/in/shendi-teuku-b3082a1b2/>