

DATA MIND

...Empowering Your Future with Data



Ministry of Communications and Information Technology
Digital Egypt Pioneers Initiative

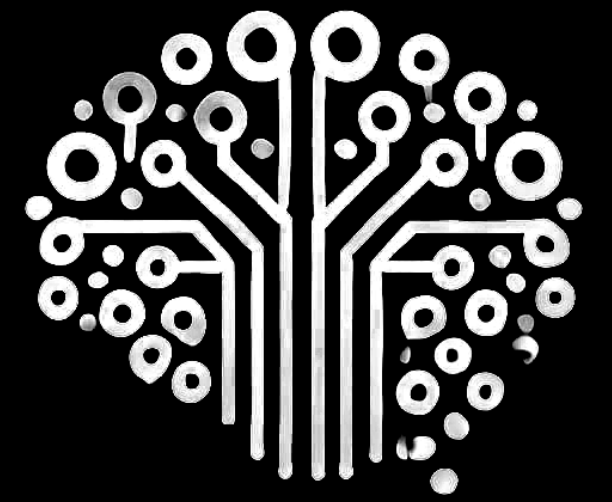
MICROSOFT POWER BI ENGINEER
TRACK

GRADUATION PROJECT

GREETING



Meet Our Team



MARWA



ALAA



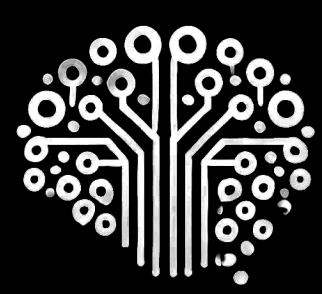
YOUSSEF



ZEINAB



AHMED



CONTENT

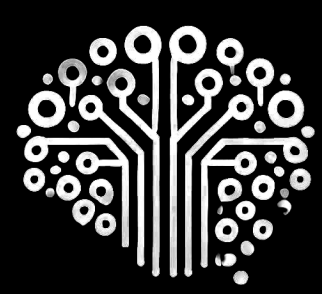
1 **Policy,
Agreement &
Overview**

2 **Dataset
Cleaning &
Preparation**

3 **Data Modeling**

4 **Creating
Dashboard**

5 **Discussion**



Policy, Agreement & Overview

Inquiry	Details
Round Number	2
Track Name	Microsoft Power BI Engineer
Instructor's Name	Dr. Mohamed Atiya
Group Code	Microsoft Power BI Engineer - CLS ONL2_DAT2_G1
Sponsor	Ministry of Communication and Information Technology
Provider	CLS Learning Solutions
Graduation Project Group Name	Data Analysis Pioneers team
Numbers of Team Members	5

 Group info

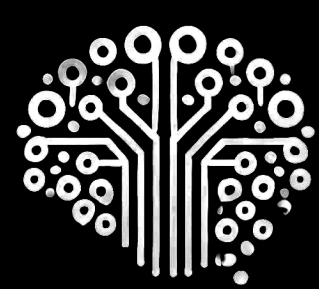


G6 - Data Analysis Pioneers team
Group · 5 members

[Add group description](#)
Group created by you, on 11/1/2024 at 4:10 PM

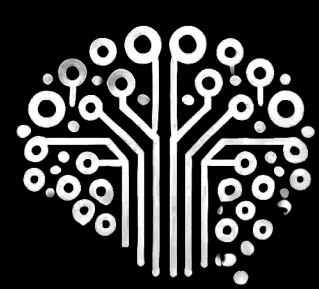
Media, links and docs 162 >

2. Project Team		
	Name	Phone Number
Project Manager:	Yousef Mohamed Elsayed	+2 01026041908
Team Members:	Alaa Hesham	+20 10 64150642
	Marwa Taha	+20 10 20499971
	Zeniab Elsadek	+20 15 54305525
	Ahmed Fahmy	+2 01063422021
3. Stakeholders		
Stakeholders includes the following :		
<ul style="list-style-type: none">Ministry of Communication and Information Technology.DEPI.CLS Learning Solutions.Data Analysis Pioneers team.		



Project Selection

Project Name	Selection criteria					Average Rank	Decision
	Ease of understanding the data	Data quality	Richness of the data in terms of extractable insights	Feasibility of utilizing the data in real-world scenarios	Capability to develop advanced analytical models		
Human Resources (HR)	<div><div></div></div> 6	<div><div></div></div> 7	<div><div></div></div> 5	<div><div></div></div> 3	<div><div></div></div> 4	<div><div></div></div> 5	Rejected
Manufacturing Downtime	<div><div></div></div> 5	<div><div></div></div> 6	<div><div></div></div> 4	<div><div></div></div> 7	<div><div></div></div> 7	<div><div></div></div> 5.8	Rejected
MTA Daily Ridership	<div><div></div></div> 4	<div><div></div></div> 5	<div><div></div></div> 6	<div><div></div></div> 7	<div><div></div></div> 4	<div><div></div></div> 5.2	Rejected
UK Train Rides	<div><div></div></div> 6	<div><div></div></div> 8	<div><div></div></div> 6	<div><div></div></div> 4	<div><div></div></div> 7	<div><div></div></div> 6.2	Rejected
Superstore Sales Dataset	<div><div></div></div> 8	<div><div></div></div> 9	<div><div></div></div> 8	<div><div></div></div> 9	<div><div></div></div> 9	<div><div></div></div> 8.8	Accepted
Supply Chain Data	<div><div></div></div> 6	<div><div></div></div> 4	<div><div></div></div> 7	<div><div></div></div> 4	<div><div></div></div> 6	<div><div></div></div> 5.4	Rejected



Dataset Cleaning & Preparation

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Row ID	Order ID	Order Date	Ship Date	Ship M	Custom	Custom	Segme	Countr	City	State	Postal Co	Region	Produc	Catego	Sub-Ca	Produc	Sales
2	1	CA-2017-152156	8/11/2017	11/11/2017	Second CI	CG-12520	Claire Gut	Consumer	United Sta	Henderso	Kentucky	42420	South	FUR-BO-1	Furniture	Bookcase	Bush Som	261.96
3	2	CA-2017-152156	8/11/2017	11/11/2017	Second CI	CG-12520	Claire Gut	Consumer	United Sta	Henderso	Kentucky	42420	South	FUR-CH-1	Furniture	Chairs	Hon Delu	731.94
4	3	CA-2017-138688	12/6/2017	16/06/2017	Second CI	DV-13045	Darrin Var	Corporate	United Sta	Los Angel	California	90036	West	OFF-LA-1	Office Sup	Labels	Self-Adhe	14.62
5	4	US-2016-108966	11/10/2016	18/10/2016	Standard	SO-20335	Sean O'Dc	Consumer	United Sta	Fort Laude	Florida	33311	South	FUR-TA-1	Furniture	Tables	Bretford C	957.5775
6	5	US-2016-108966	11/10/2016	18/10/2016	Standard	SO-20335	Sean O'Dc	Consumer	United Sta	Fort Laude	Florida	33311	South	OFF-ST-1	Office Sup	Storage	Eldon Folk	22.368
7	6	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	FUR-FU-1	Furniture	Furnishing	Eldon Exp	48.86
8	7	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	OFF-AR-1	Office Sup	Art	Newell 32	7.28
9	8	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	TEC-PH-1	Technolog	Phones	Mitel 532C	907.152
10	9	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	OFF-BI-1	Office Sup	Binders	DXL Angle	18.504
11	10	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	OFF-AP-1	Office Sup	Appliance	Belkin F5C	114.9
12	11	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	FUR-TA-1	Furniture	Tables	Chromcra	1706.184
13	12	CA-2015-115812	9/6/2015	14/06/2015	Standard	BH-11710	Brosina Hc	Consumer	United Sta	Los Angel	California	90032	West	TEC-PH-1	Technolog	Phones	Konftel 25	911.424
14	13	CA-2018-114412	15/04/2018	20/04/2018	Standard	AA-10480	Andrew A	Consumer	United Sta	Concord	North Car	28027	South	OFF-PA-1	Office Sup	Paper	Xerox 196	15.552
15	14	CA-2017-161389	5/12/2017	10/12/2017	Standard	IM-15070	Irene Mac	Consumer	United Sta	Seattle	Washingt	98103	West	OFF-BI-1	Office Sup	Binders	Fellowes	407.976
16	15	US-2016-118983	22/11/2016	26/11/2016	Standard	HP-14815	Harold Pa	Home Off	United Sta	Fort Wort	Texas	76106	Central	OFF-AP-1	Office Sup	Appliance	Holmes Re	68.81
17	16	US-2016-118983	22/11/2016	26/11/2016	Standard	HP-14815	Harold Pa	Home Off	United Sta	Fort Wort	Texas	76106	Central	OFF-BI-1	Office Sup	Binders	Storex Du	2.544
18	17	CA-2015-105893	11/11/2015	18/11/2015	Standard	PK-19075	Pete Kriz	Consumer	United Sta	Madison	Wisconsin	53711	Central	OFF-ST-1	Office Sup	Storage	Stur-D-Stc	665.88
19	18	CA-2015-167164	13/05/2015	15/05/2015	Second CI	AG-10270	Alejandro	Consumer	United Sta	West Jord	Utah	84084	West	OFF-ST-1	Office Sup	Storage	Fellowes	55.5
20	19	CA-2015-143336	27/08/2015	1/9/2015	Second CI	ZD-21925	Zuschuss I	Consumer	United Sta	San Franci	California	94109	West	OFF-AR-1	Office Sup	Art	Newell 34	8.56
21	20	CA-2015-143336	27/08/2015	1/9/2015	Second CI	ZD-21925	Zuschuss I	Consumer	United Sta	San Franci	California	94109	West	TEC-PH-1	Technolog	Phones	Cisco SPA	213.48
22	21	CA-2015-143336	27/08/2015	1/9/2015	Second CI	ZD-21925	Zuschuss I	Consumer	United Sta	San Franci	California	94109	West	OFF-BI-1	Office Sup	Binders	Wilson Joi	22.72
23	22	CA-2017-137330	9/12/2017	13/12/2017	Standard	KB-16585	Ken Black	Corporate	United Sta	Fremont	Nebraska	68025	Central	OFF-AR-1	Office Sup	Art	Newell 31	19.46
24	23	CA-2017-137330	9/12/2017	13/12/2017	Standard	KB-16585	Ken Black	Corporate	United Sta	Fremont	Nebraska	68025	Central	OFF-AP-1	Office Sup	Appliance	Acco Six-C	60.34
25	24	US-2018-156909	16/07/2018	18/07/2018	Second CI	SF-20065	Sandra Fla	Consumer	United Sta	Philadelp	Pennsylva	19140	East	FUR-CH-1	Furniture	Chairs	Global De	71.372
26	25	CA-2016-106320	25/09/2016	30/09/2016	Standard	EB-13870	Emily Buri	Consumer	United Sta	Orem	Utah	84057	West	FUR-TA-1	Furniture	Tables	Bretford C	1044.63

Query Settings

PROPERTIES

APPLIED STEPS

Source

Promoted Headers

Changed Type

Removed Duplicates

Removed Country

Removed Duplicates

Replace null in postal code 5401

Replaced Encinitas with San Diego

Split Order ID by Delimiter

Changed Order ID to number

Removed Order ID.1, Order ID.2

Renamed Order ID

Split Customer ID by Delimiter

Changed Customer ID to number

Removed Customer ID.1

Renamed Customer ID

Split Product ID by Delimiter

Changed Product ID to number

Removed Product ID.1,2

Renamed Product ID

Merged Queries

Expanded Products

Removed Columns

Queries [5]

Orders

Customers

Geolocation

Products

All measures

= Table.SelectColumns("#Renamed Product ID",{ "Product ID", "Category", "Sub-Categ

Product ID

Category

Sub-Category

Product Name

Valid 100%

Error 0%

Empty 0%

710 distinct, 489 unique

Valid 100%

Error 0%

Empty 0%

3 distinct, 0 unique

Valid 100%

Error 0%

Empty 0%

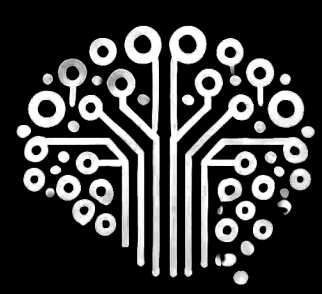
17 distinct, 0 unique

Valid

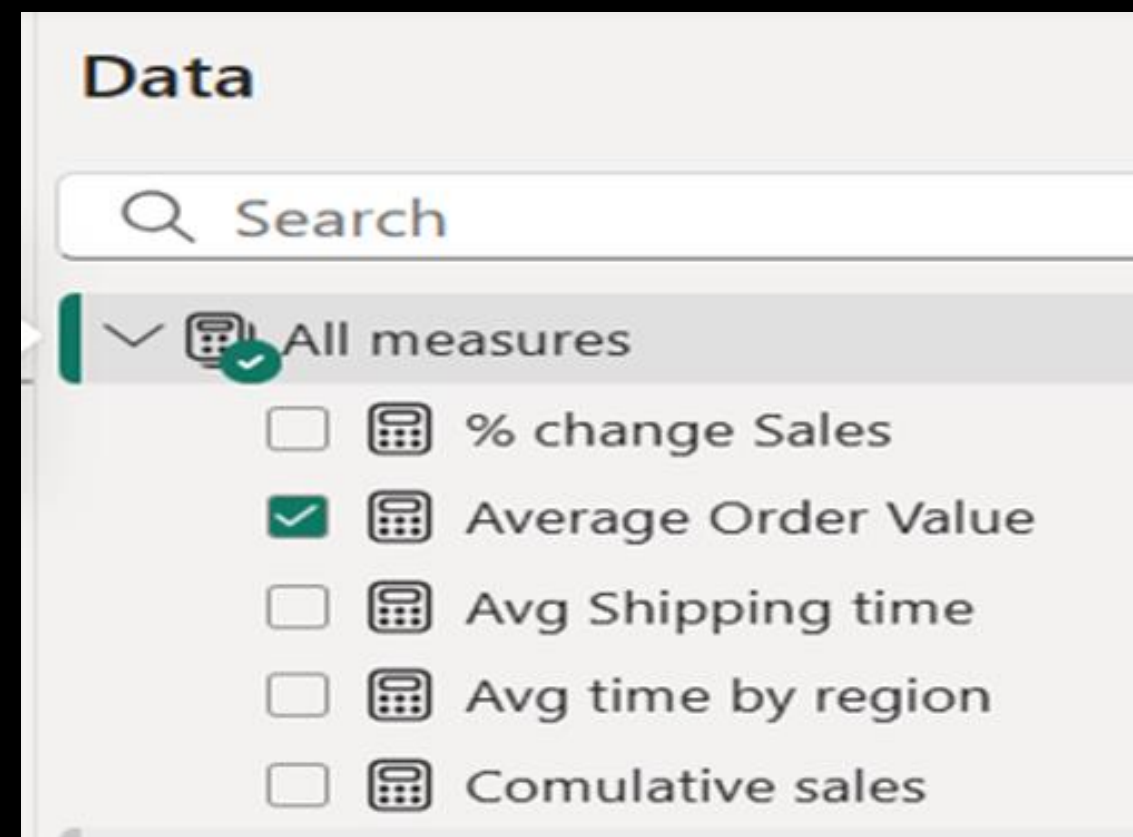
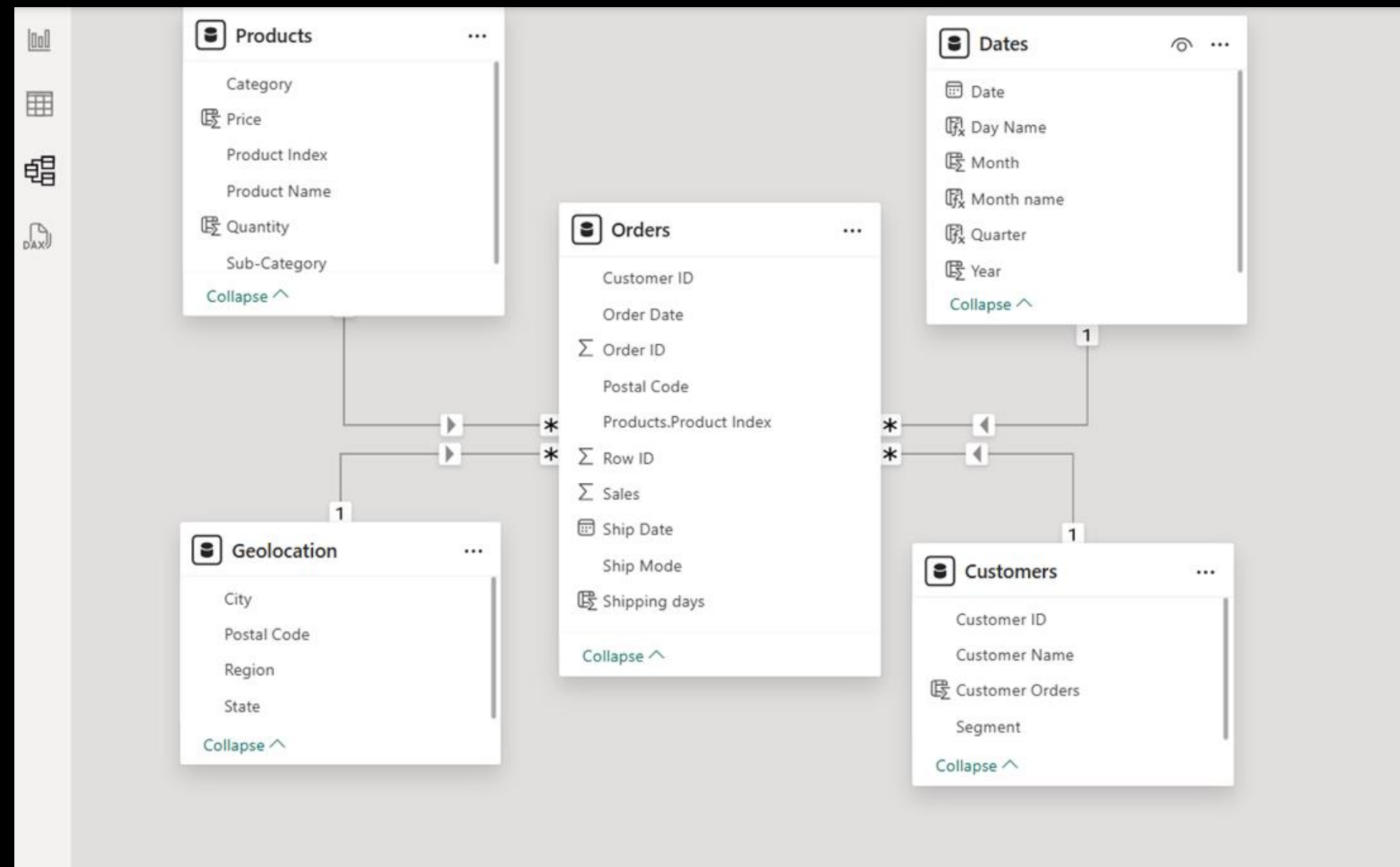
Error

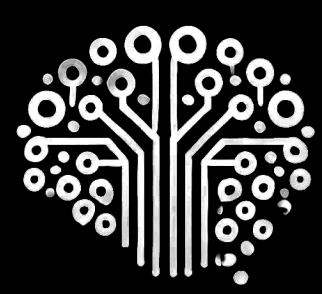
Empty

763 distinct, 568 unique

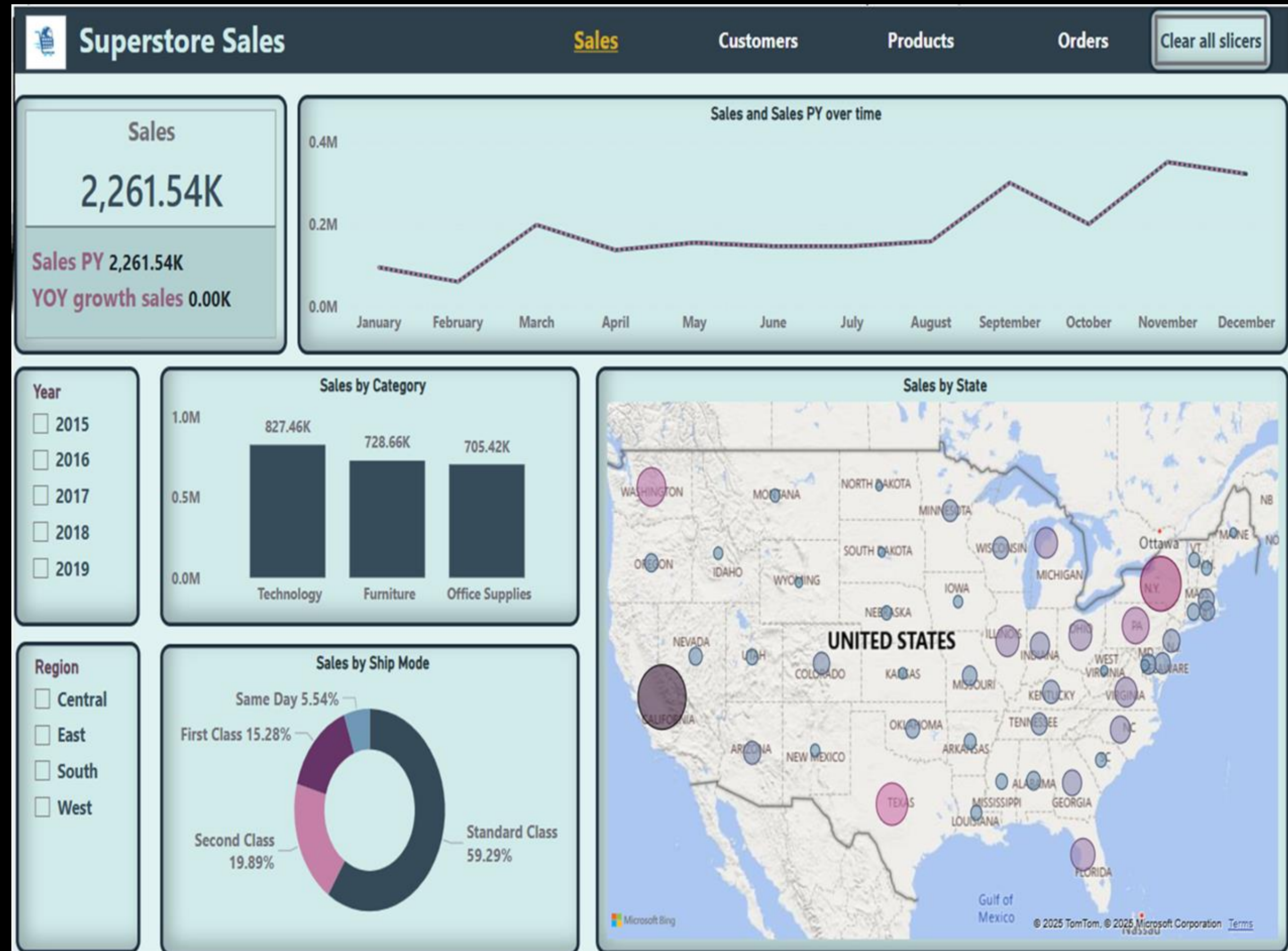


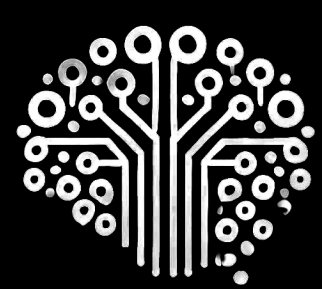
Data Modeling





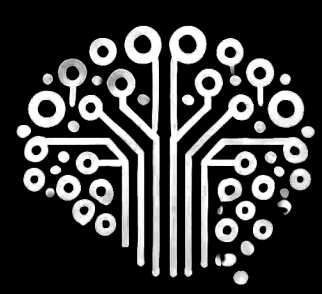
Creating Dashboard



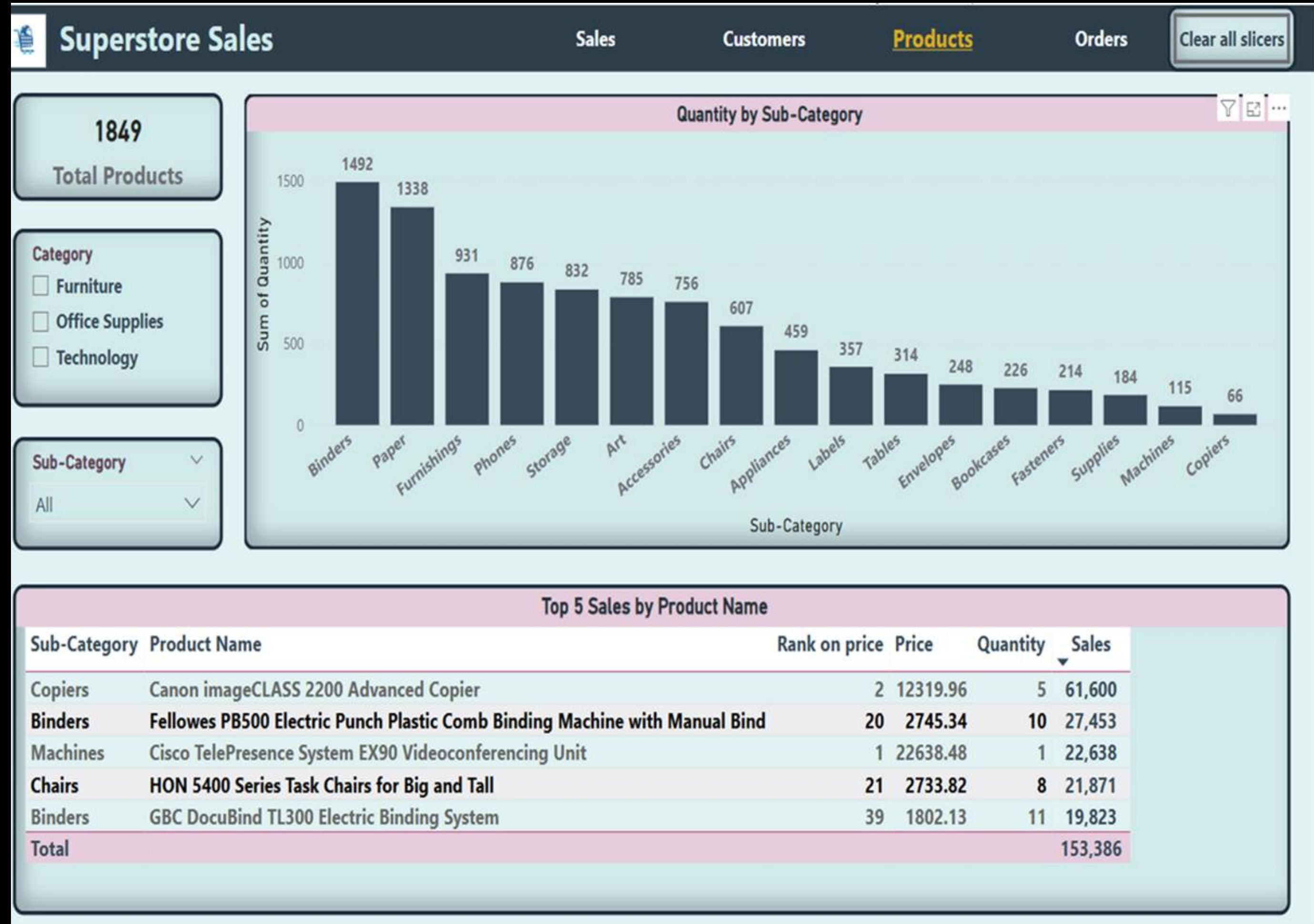


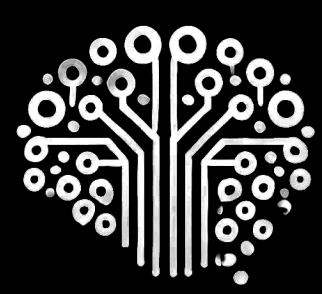
Creating Dashboard





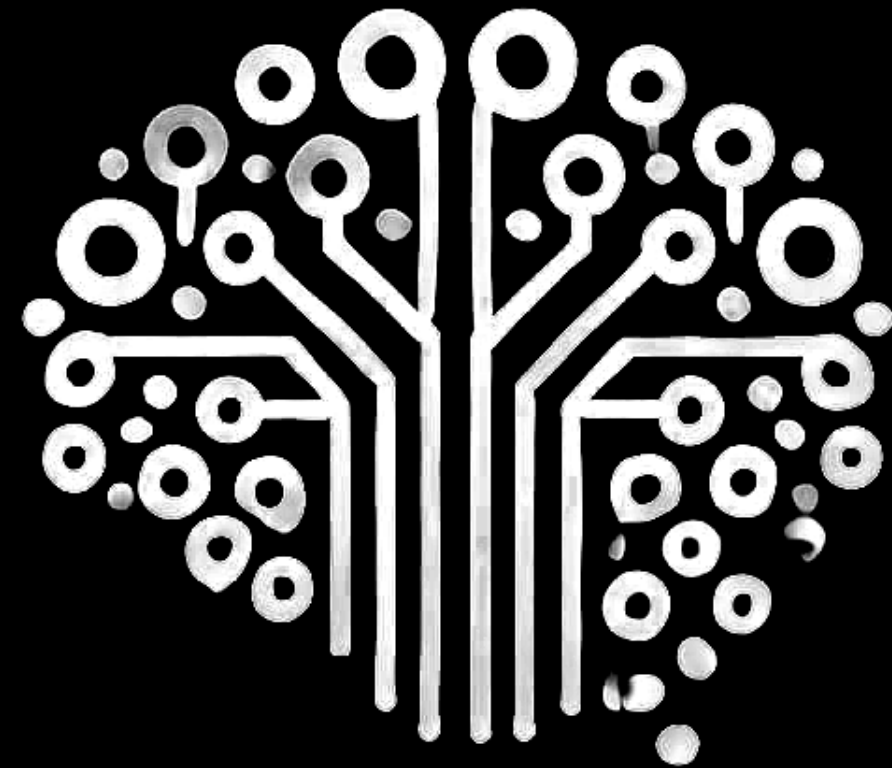
Creating Dashboard





Creating Dashboard





Thank You