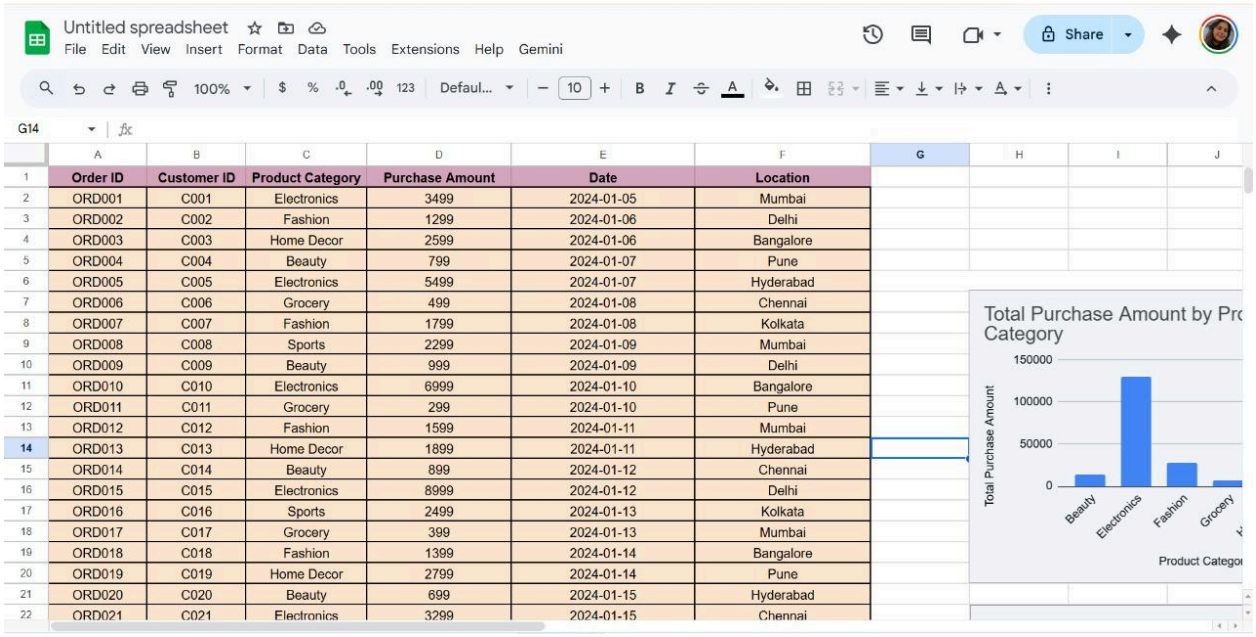
COMPONENT 2 — TOOLS USED & PROGRESS (FORMAL + POINT-WISE)

1. Tools Identified and Their Intended Use

Google Sheets

I used Google Sheets to organise the synthetic dataset consisting of Order ID, Customer ID, Product Category, Purchase Amount, Date, and Location. The dataset contains around 50–100 rows of structured e-commerce sales records, which formed the foundation for further analysis and dashboard creation.



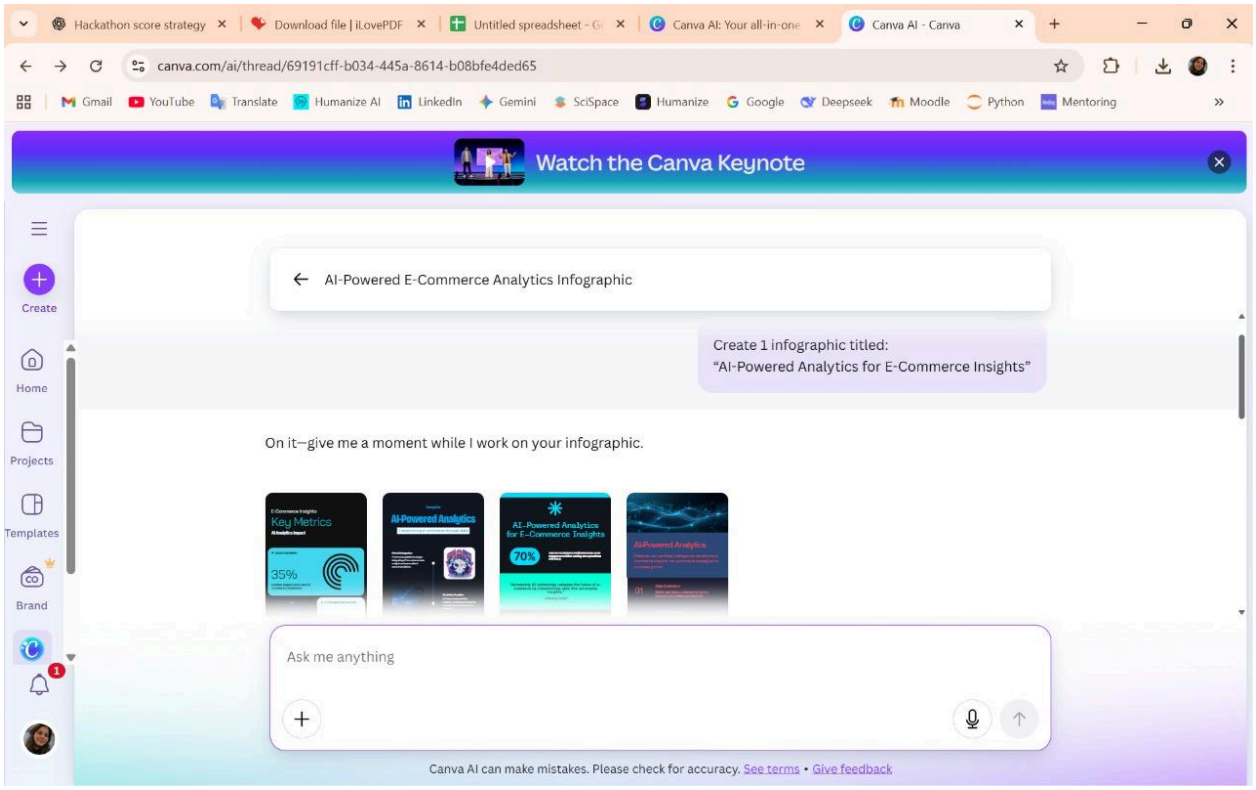
Order ID	Customer ID	Product Category	Purchase Amount	Date	Location
ORD001	C001	Electronics	3499	2024-01-05	Mumbai
ORD002	C002	Fashion	1299	2024-01-06	Delhi
ORD003	C003	Home Decor	2599	2024-01-06	Bangalore
ORD004	C004	Beauty	799	2024-01-07	Pune
ORD005	C005	Electronics	5499	2024-01-07	Hyderabad
ORD006	C006	Grocery	499	2024-01-08	Chennai
ORD007	C007	Fashion	1799	2024-01-08	Kolkata
ORD008	C008	Sports	2299	2024-01-09	Mumbai
ORD009	C009	Beauty	999	2024-01-09	Delhi
ORD010	C010	Electronics	6999	2024-01-10	Bangalore
ORD011	C011	Grocery	299	2024-01-10	Pune
ORD012	C012	Fashion	1599	2024-01-11	Mumbai
ORD013	C013	Home Decor	1899	2024-01-11	Hyderabad
ORD014	C014	Beauty	899	2024-01-12	Chennai
ORD015	C015	Electronics	8999	2024-01-12	Delhi
ORD016	C016	Sports	2499	2024-01-13	Kolkata
ORD017	C017	Grocery	399	2024-01-13	Mumbai
ORD018	C018	Fashion	1399	2024-01-14	Bangalore
ORD019	C019	Home Decor	2799	2024-01-14	Pune
ORD020	C020	Beauty	699	2024-01-15	Hyderabad
ORD021	C021	Electronics	3299	2024-01-15	Chennai

Microsoft Power BI

I used Power BI to develop analytical visualisations based on the dataset. The dashboard includes ten visualisations such as KPI cards, stacked column charts, clustered bar charts, and a line chart to reflect sales trends, category performance, and customer behaviour insights.

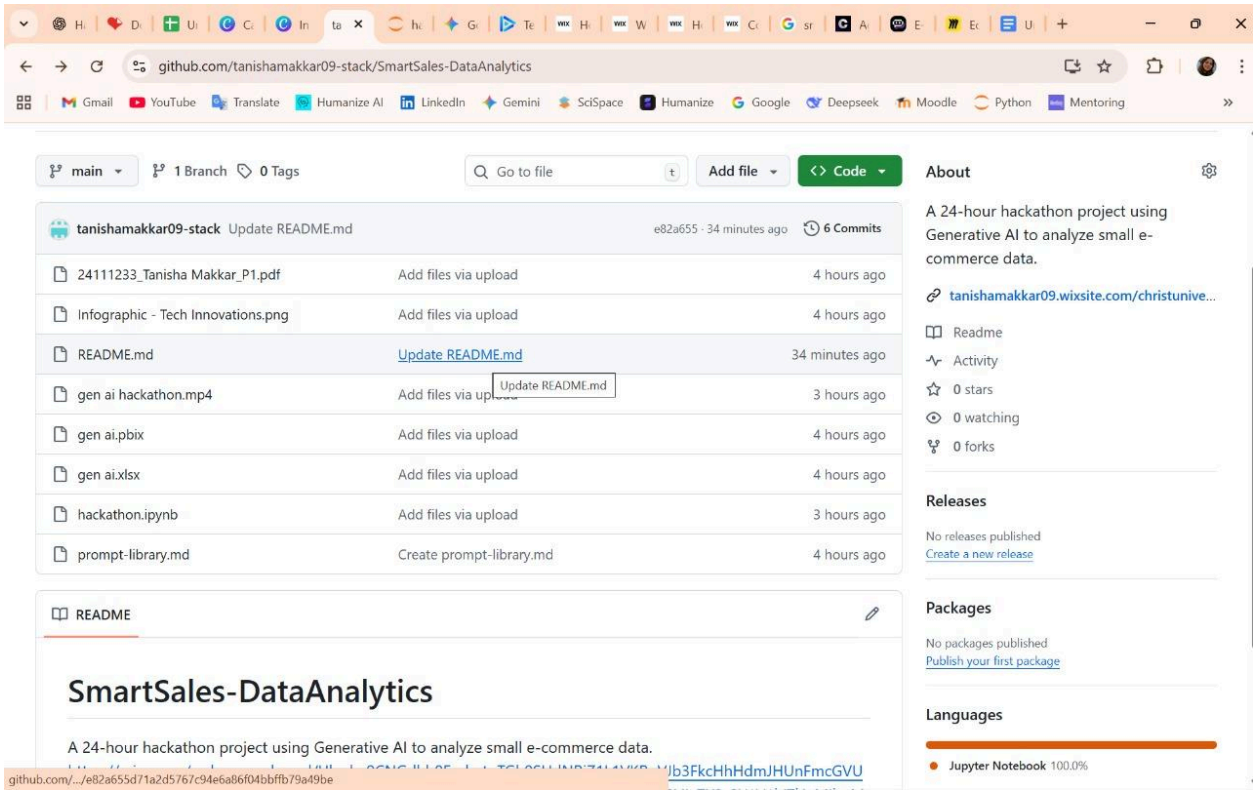
Canva AI

Canva AI was utilised to create an infographic summarising the project problem, approach, AI tools used, and the expected business impact. This visual element strengthens the presentation quality for the final submission.



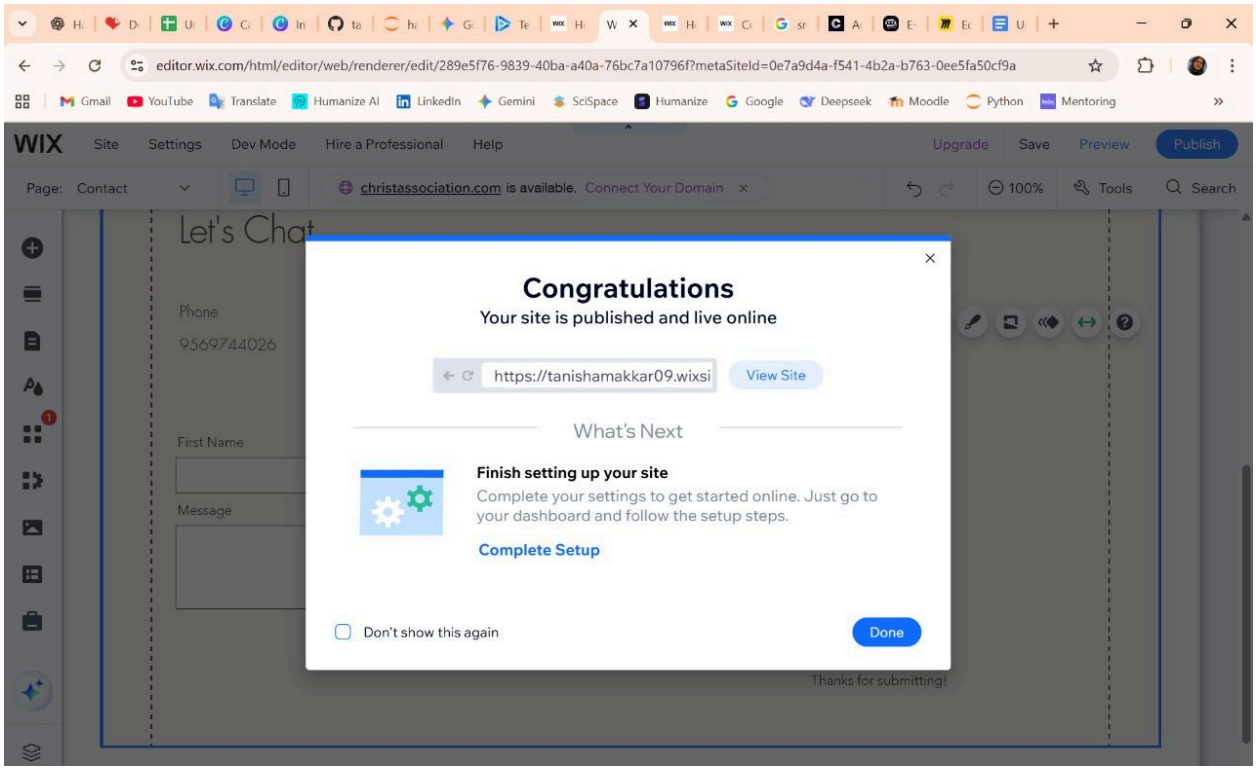
Git Hub

I created a GitHub repository to store and manage all project-related files including the dataset, prompt library, and documentation. GitHub also serves as a transparent version-control system demonstrating the workflow and progress of the hackathon project.



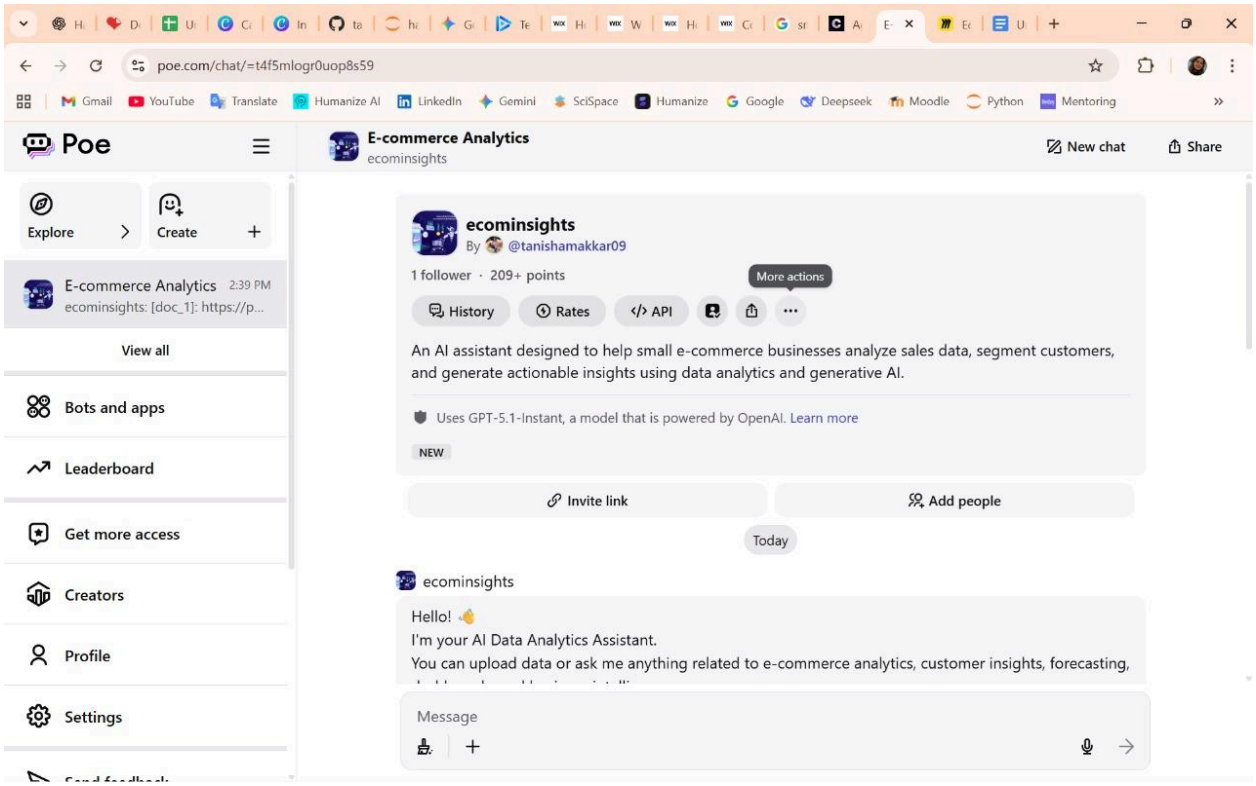
Wix Website

I developed a multi-page Wix website that includes a Home Page, About the Project Page, Sora AI Video Page, and a Contact Page. The website serves as a central hub showcasing all components of the project in a clean and accessible format.



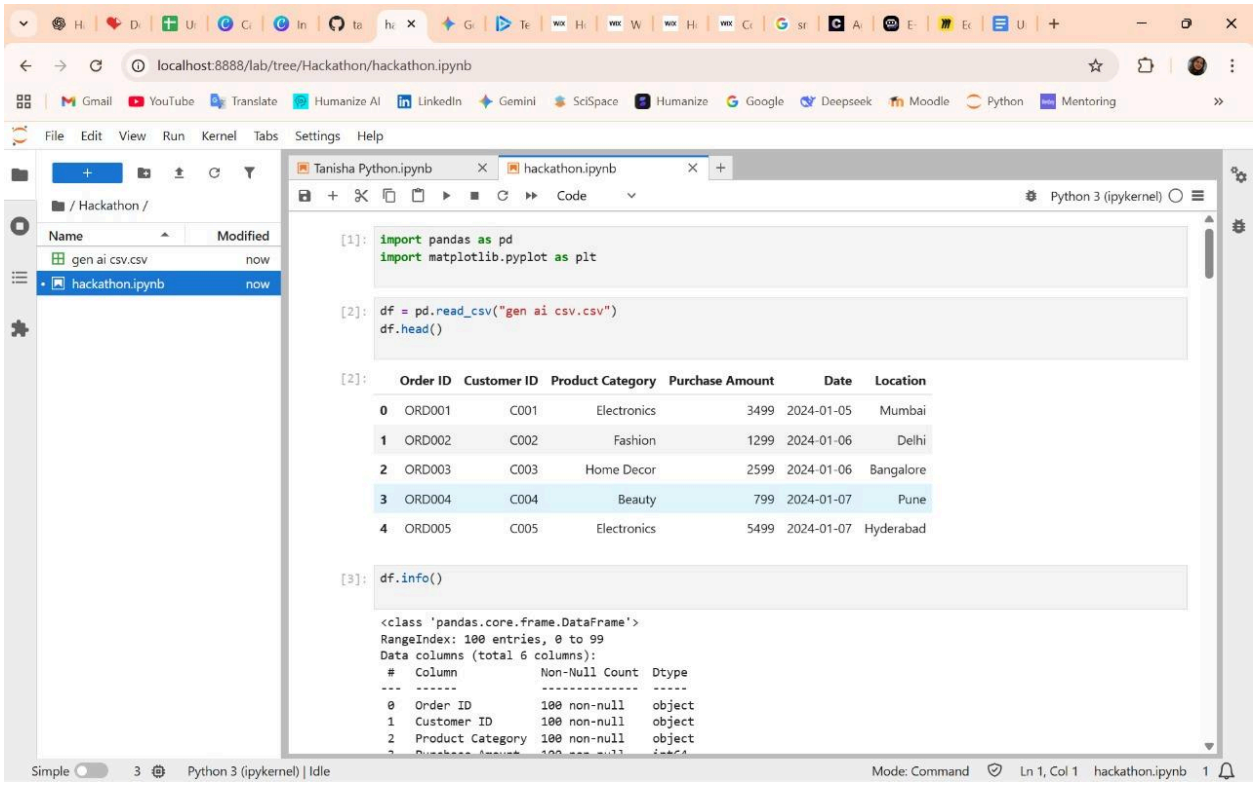
Chatbot Tool

I built an AI-powered chatbot that responds to user queries related to the e-commerce dataset and project explanation. This demonstrates the application of conversational AI in business analytics.



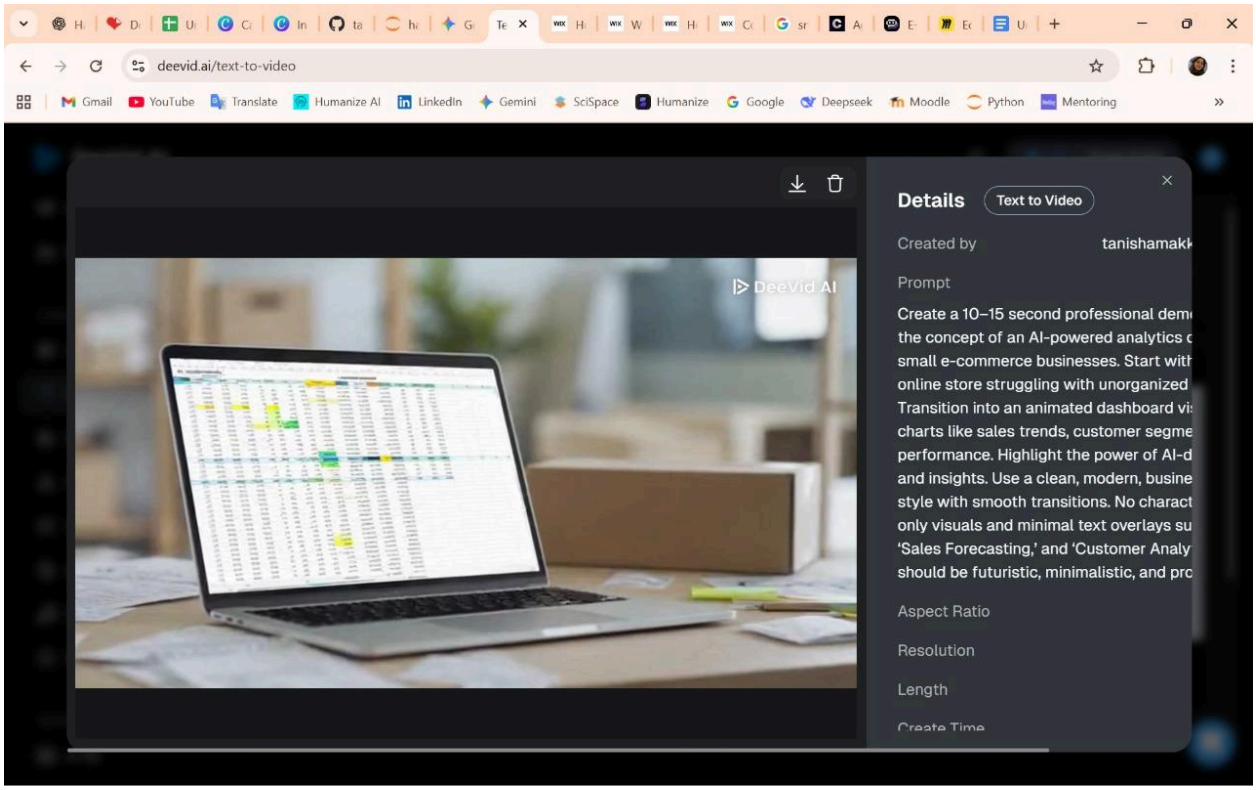
JupyterLab

I utilised JupyterLab to perform structured exploration of the dataset with AI-assisted Python steps. The notebook includes data loading steps, initial descriptive analysis, and exploratory observations.



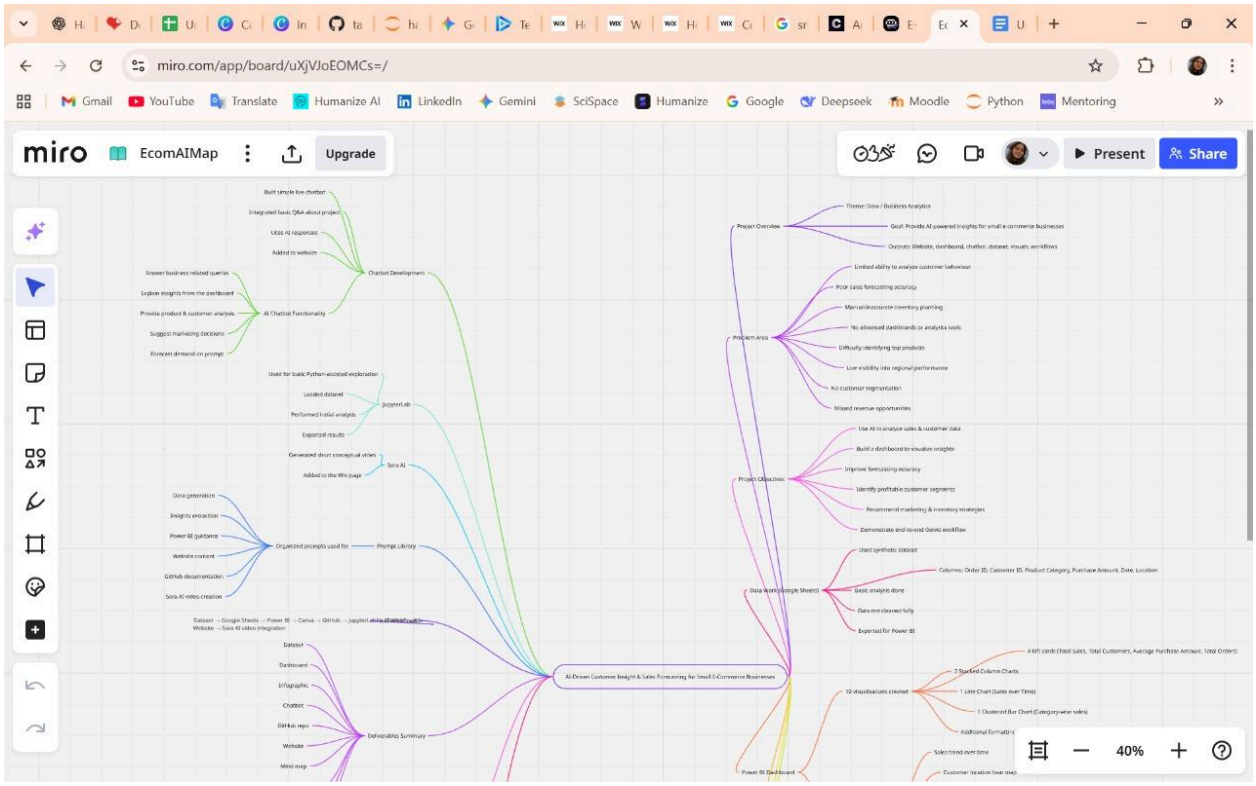
Sora AI

I used Sora AI to generate conceptual video clips explaining the project's purpose and visualising the impact of AI-driven business analytics for small e-commerce businesses.



Miro (Mind Map)

I created a project mind map on Miro to visually outline the key components such as dataset creation, analysis flow, Power BI dashboard plan, chatbot development, website structure, and integration workflow.



2. Work Progress Completed So Far

Dataset Creation and Organisation

I generated and formatted a complete synthetic dataset relevant to e-commerce sales and analysed it using Google Sheets.

Dashboard Development

I created a multi-visual Power BI dashboard containing ten visualisations that effectively represent sales performance, customer activity, and category trends.

Infographic Development

I designed a clear and visually appealing infographic using Canva AI, highlighting the project's objective, workflow, tools, and expected insights.

GitHub Repository Setup

I set up a GitHub repository, uploaded essential project files, and included a prompt library for transparency of the AI-driven workflow.

Website Development on Wix

I built a structured website containing all major sections of the project, including visual content and contact details, to showcase the hackathon work professionally.

Chatbot Creation

I developed an AI chatbot capable of answering questions about the project and dataset, demonstrating real-world applicability of conversational AI.

JupyterLab Data Exploration

I performed exploratory analysis using JupyterLab, ensuring the project includes a technical component based on AI-assisted Python workflows.

Sora AI Video Creation

I produced short conceptual videos describing the project vision and the role of AI in business analytics, which adds creative depth to the submission.

Mind Map on Miro

I created a structured visual mind map showing the entire project workflow, including tools, analysis steps, and integration plan.

3. Summary of Progress

All essential tools have been successfully identified and integrated into the project workflow.

Dataset preparation, dashboard creation, chatbot development, website setup, and visual assets have been completed.

The project is now in the refinement stage, focusing on improving clarity, quality, and final presentation readiness.