Task ID	Task Description	Assigned to	Status of Completion	Due
1.1	Define topic & objecttves	All	100%	9/26/2025
1.2	Define roles	All	100%	10/26/2025
1.3	Confirm tools & environement	All	100%	
2.1	Confirm data source license & citation	All	100%	10/30/2025
2.2	Download dataset and organize	All	100%	10/30/2025
2.3	Review data briefly	All	100%	10/30/2025
3.1	Remove duplicates	Jinyu & Richard		11/2/2025
3.2	Standardize data types	Jinyu & Richard		11/2/2025
3.3	Text normalization	Jinyu & Richard		11/2/2025
3.4	Generate cleaned dataset	Jinyu & Richard		11/2/2025
4.1	Draw ER diagram	All		11/8/2025
4.2	Design schema	All		11/8/2025
4.3	Constraint & index design	All		11/8/2025
5.1	Create database	Jinyu		11/14/2025
5.2	Load data into SQL schema	Jinyu		11/14/2025
5.3	Validate referential integrity	Jinyu		11/14/2025
6.1	Define 8 analysis questions	Jinyu & Yichen		
6.2	Implement queries #1–4	Jinyu & Yichen		
6.3	Implement queries #5–8	Jinyu & Yichen		
6.4	Check performance	Jinyu & Yichen		
7.1	Init backend data pipelines	Richard		
7.2	DB connection	Richard		
7.3	Build endpoints for all SQL queries	Richard		
7.4	API unit & integration tests	Richard		
8.1	Front-end and UI design	Yichen		
8.2	Set up UI style & components	Yichen		
8.3	Build Overview dashboard	Yichen		
8.4	API integration & error handling	Yichen		
9.1	Define chatbot capabilities	Richard		