## m Project Timeline & Task Table

Week	Phase	Tasks	Skills Required	Deliverables
1	Project Setup & Planning	- Define problem and objectives - Create GitHub repo & project board - Team roles - Plan dataset needs & sources	Project Management, GitHub, Planning	Project charter, GitHub structure
2	Data Collection & Storage	- Gather real-world dataset(s) - Clean data (missing values, duplicates) - Design ER Diagram - Create Data Warehouse schema	SQL, Data Modeling, ETL, Excel/Pandas	Clean dataset, ERD, Schema
3	ETL & Preprocessing	- Implement ETL pipeline (Extract, Transform, Load) - Integrate into warehouse - Segment data (age, region, etc.)	ETL tools, SQL, Python (pandas), DataOps	ETL scripts, loaded DW
4	Data Mining & Intelligence	<ul> <li>- Apply Association Rules</li> <li>(Apriori)</li> <li>- Perform Segmentation</li> <li>(Clustering)</li> <li>- Generate insights (KPIs)</li> </ul>	Apriori, Clustering (KMeans), sklearn, ML basics	Mined patterns, rules, KPIs
5	₩ BI Visualization (Tableau)	- Create dashboards in Tableau - Connect to Data Warehouse - Implement slicers/filters/segmentation - Add charts for trends, rules	Tableau, BI Design, Storytelling	BI dashboards, Tableau project

6	Reporting	- Write README with all	Documentation,	Final Report,
	& Finalization	sections	Git, Presentation	GitHub, Slide
		- Finalize documentation		deck
		- Team presentation		
		- Push everything to GitHub		