Phase	Task	Duration
1. Project Planning	Define project objectives	1 week
	Identify data sources	1 week
	Develop project scope and deliverables	1 week
2. Data Collection	Collect historical sales data	2 weeks
	Collect external data (e.g., economic trends)	2 weeks
	Data cleaning and preprocessing	1 week
3. Exploratory Analysis	Perform exploratory data analysis (EDA)	1 week
	Visualize key trends	1 week
4. Model Development	Select forecasting methods/algorithms	1 week
	Train models on historical data	2 weeks
	Evaluate model performance	1 week
5. Model Deployment	Test model with real-time/recent data	1 week
	Integrate model with e-commerce system	2 weeks
6. Model Monitoring & Updates	Monitor model performance over time	Ongoing
	Retrain model periodically	Monthly
7. Reporting & Optimization	Generate demand forecasting reports	Ongoing
	Optimize supply chain based on forecasts	Ongoing
8. Final Review & Documentation	Review and document outcomes	1 week