Business Analysis	Purpose	Algorithm / Technique	Data Required
1. **Product Similarity Analysis**	Identify near-duplicate products across platforms for consolidation	Sentence Embeddings + Cosine Similarity	Product names, descriptions, attributes
2. **Low-Selling Product Detection**	Detect products with poor performance over time	Rule-Based Thresholding / Time-Series Trends	Sales volume, last sold date, inventory
3. **Obsolete Product Identification**	Flag inventory that hasn't moved in a long time	Rule-Based Filters + Time Decay Functions	Inventory aging, sales history
4. **Pricing Inconsistency Detection**	Compare the same SKU across platforms/regions for pricing mismatches	Rule-Based Logic + Cross-DB Join Matching	Product IDs, platform, region, prices
5. **Platform Optimization Analysis**	Suggest where to keep or remove a product based on regional performance	Comparative Analytics + Threshold Rules	Regional/platform sales data, margins
6. **Product Bundling Recommendations**	Find frequently co-purchased items to form bundles	Apriori / FP-Growth (Association Rule Mining)	Order history (order_id, product_id)
7. **Demand Forecasting (Future Scope)**	Predict future demand to support bundle timing or stocking decisions	Time Series Forecasting (ARIMA, Prophet, LSTM)	Historical sales data (time series)
8. **Product Clustering**	Segment products into groups for pricing strategy or bundling	K-Means / DBSCAN / Agglomerative Clustering	Price, category, sales volume, text vectors