

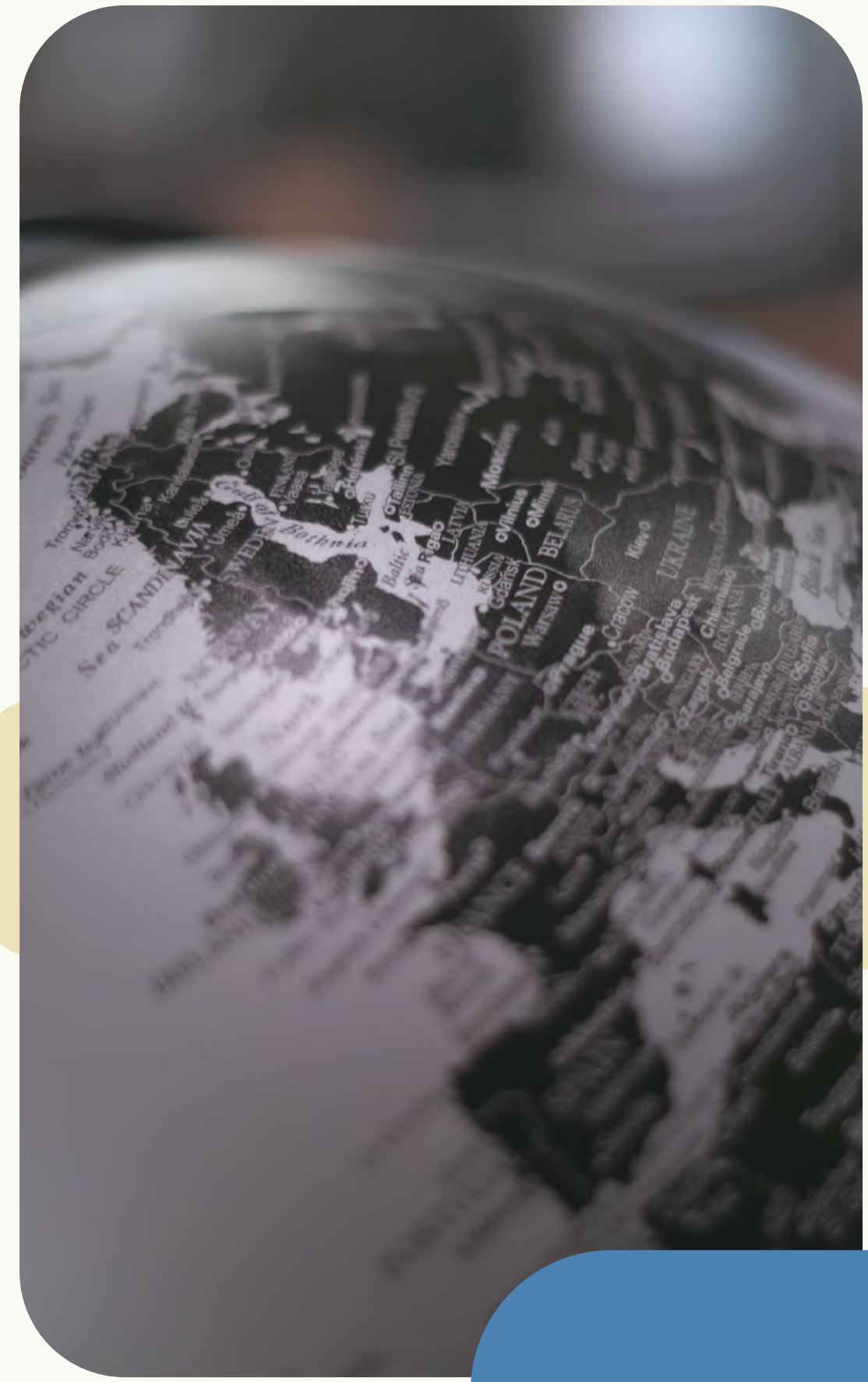
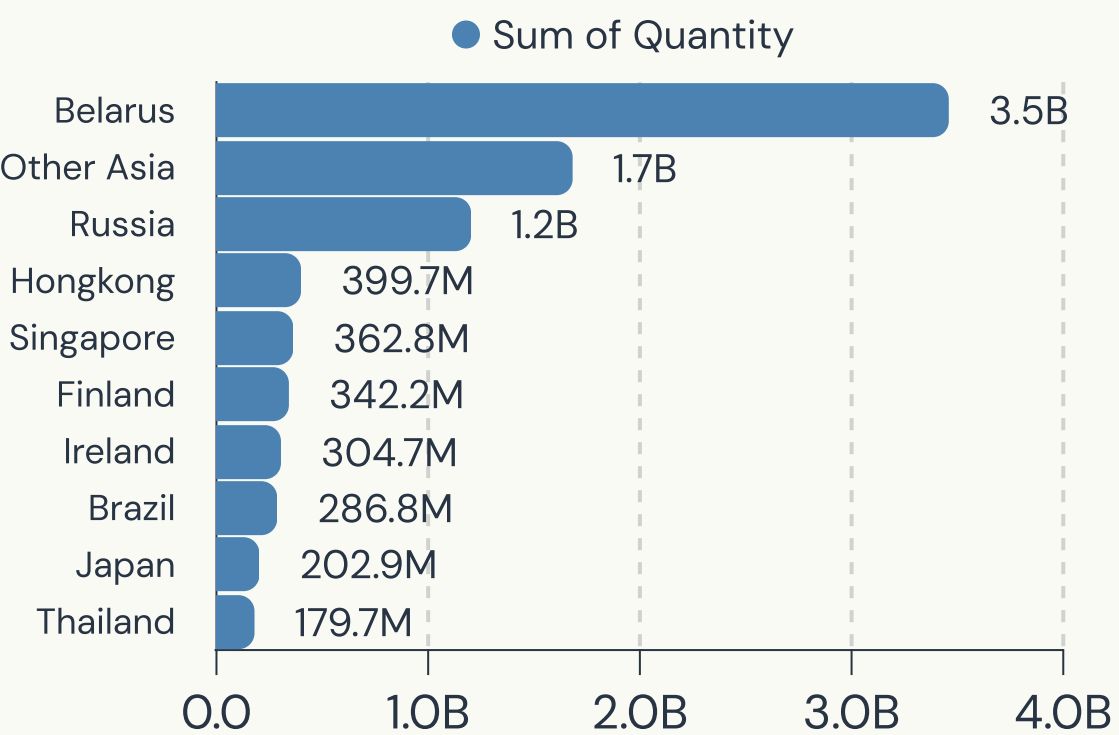
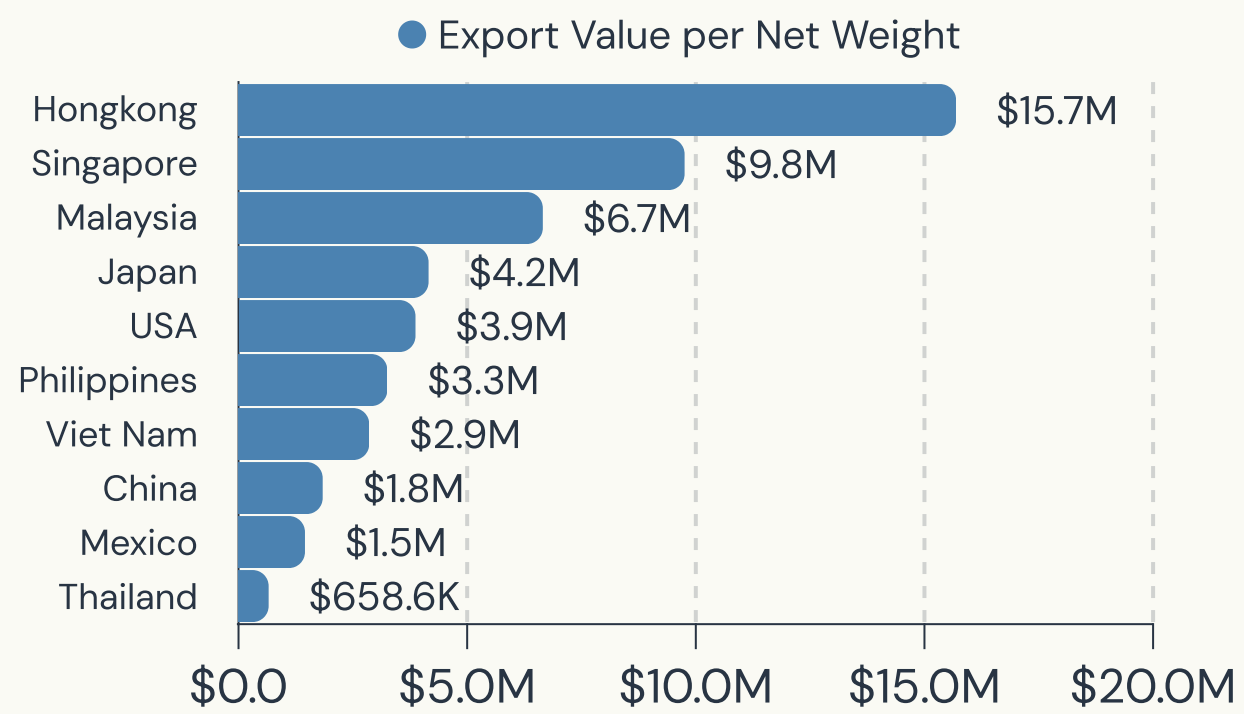
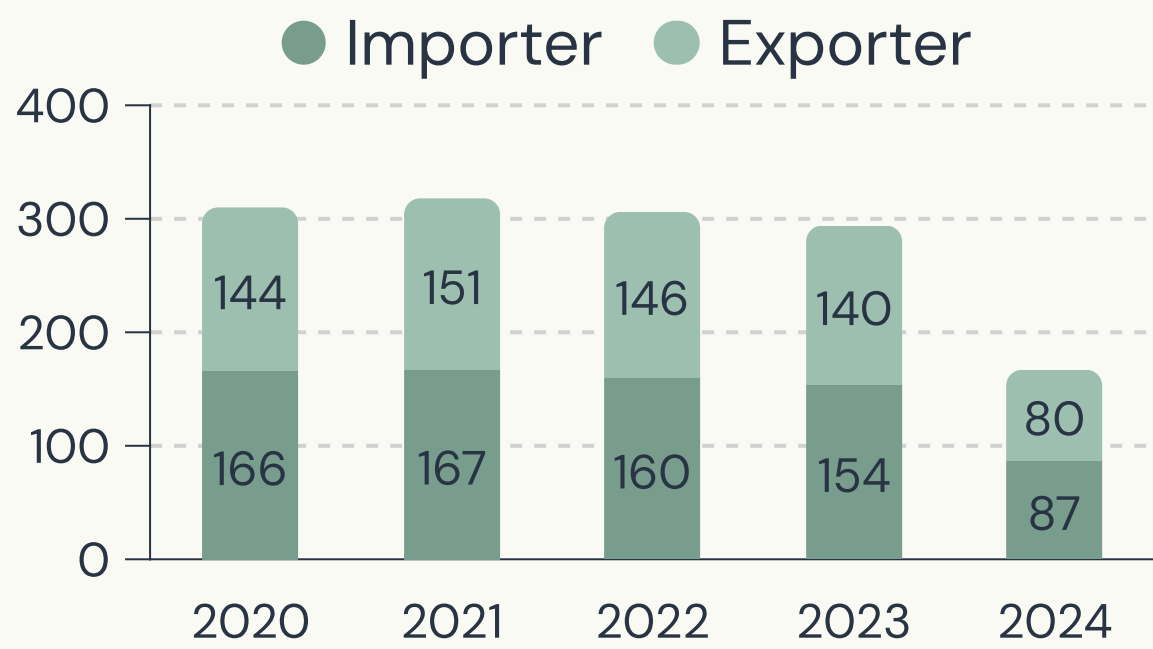
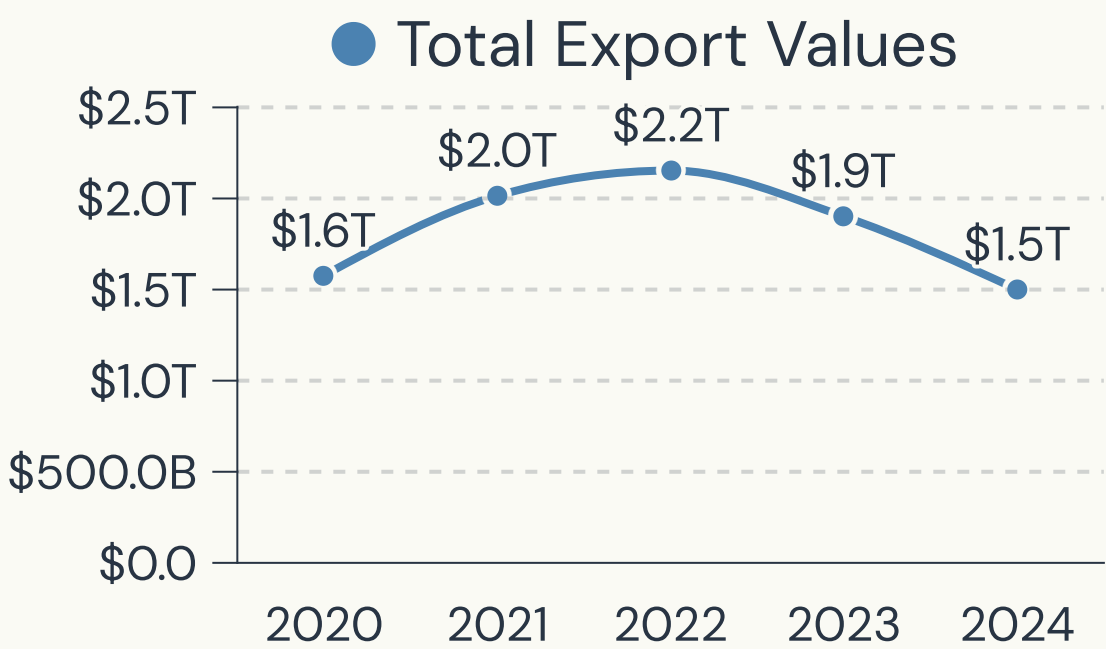
Checkpoint 1

31 AUGUST 2025

Global Integrated Circuit Trade Forecasting

Summary of "Global IC Trade Patterns Analysis"

DA Final Project



For Data Science Final Project

Forecasting Tahunan

Menggunakan data tahun 2020 – 2024 untuk melihat ramalan tren tahun 2025.

Forecasting Bulanan

Menggunakan data tahun 2025, bulan Januari hingga Juli, untuk melihat ramalan tren bulan berikutnya

Perbandingan antara kedua forecasting

Dengan didapat kedua hasil dengan tahun yang sama akan mendapatkan kesimpulan.



Key Findings on the Data

UN Comtrade Database

Yearly

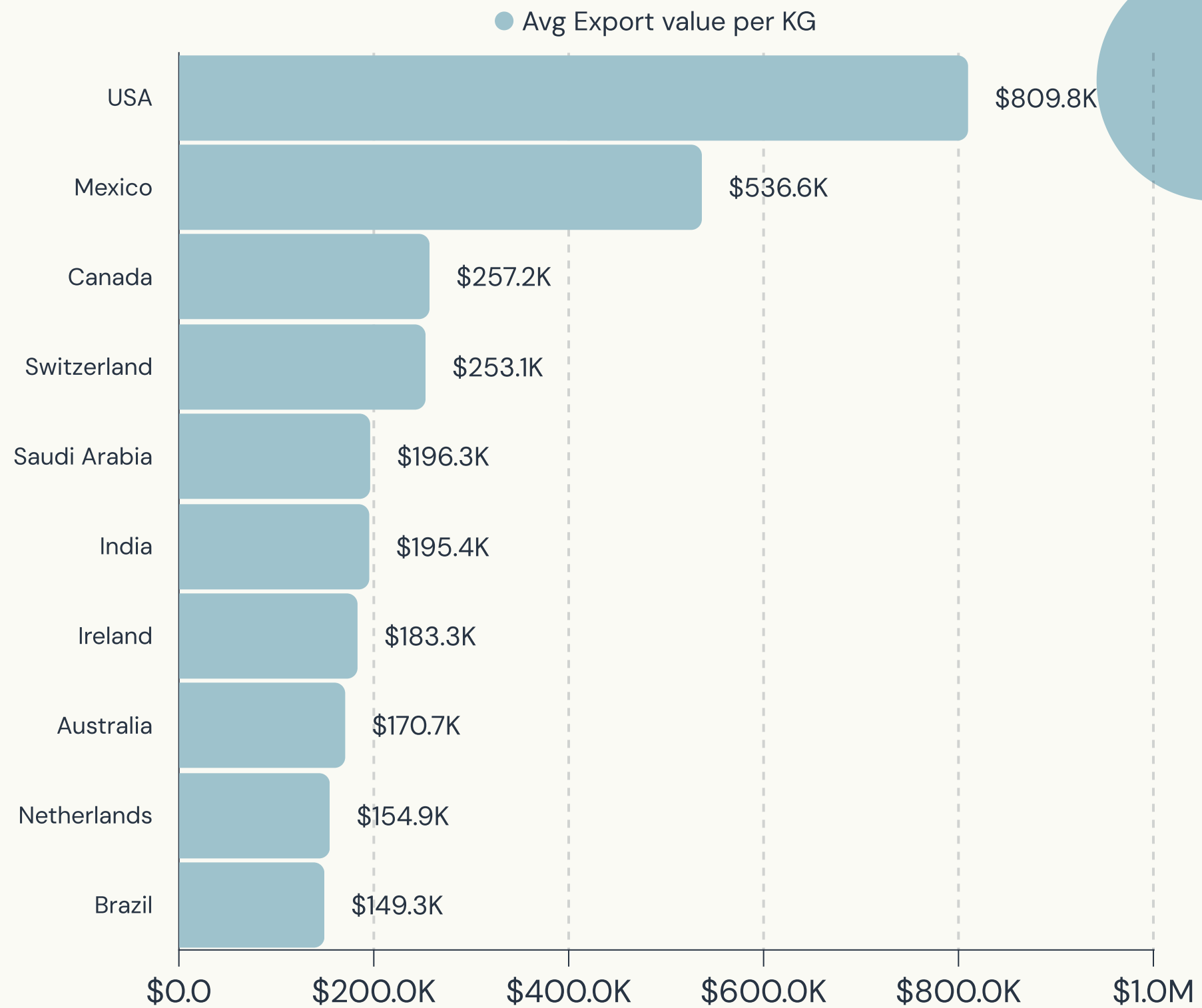
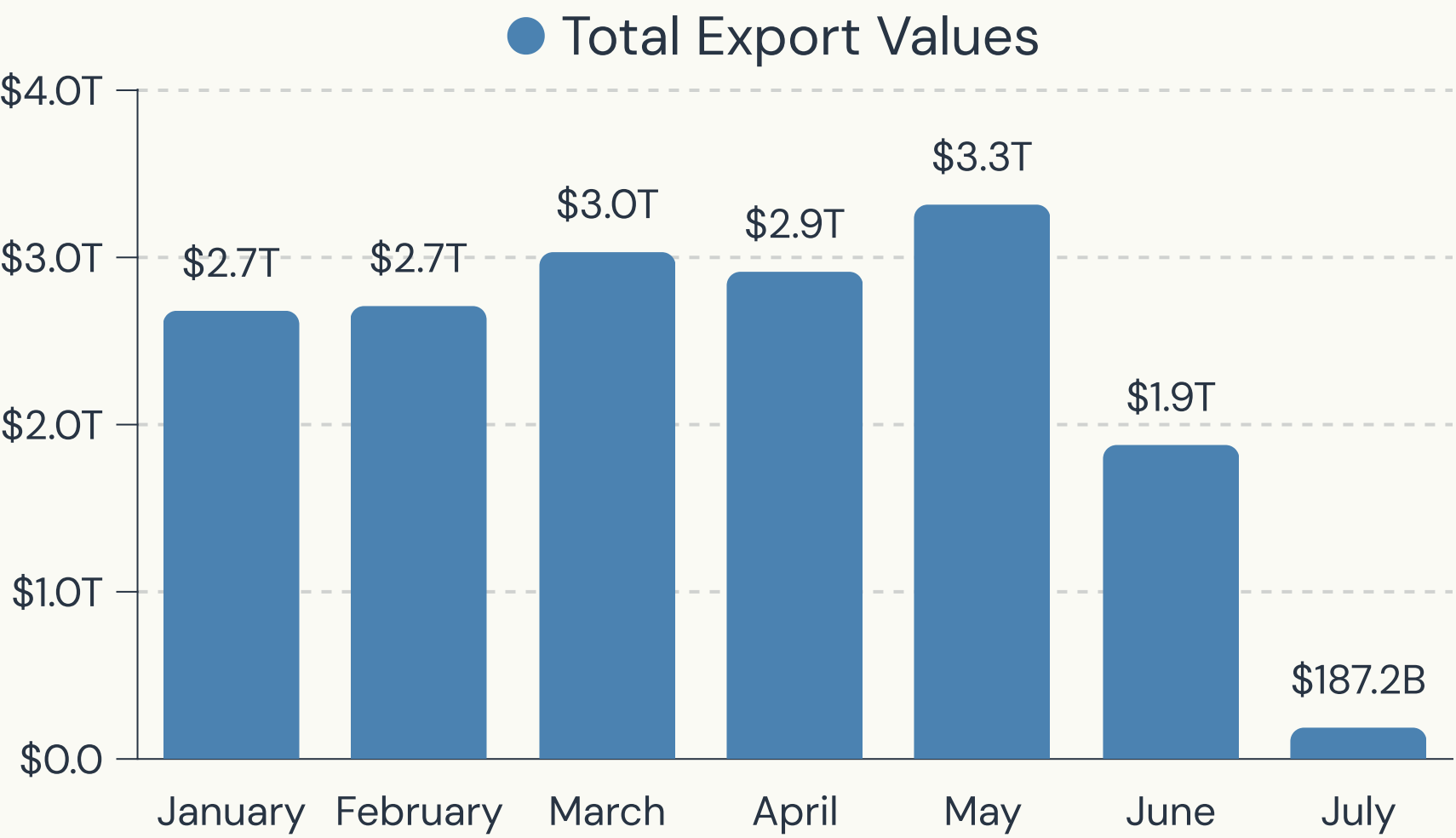
- Has 47 Columns, 66859 rows
- Eliminate into 14 columns
- fobvalue & cifvalue has missing value >20% → cleaned by removing rows
- netWgt has missing value ~8% → use median
- rows has 23092

Monthly (Export)

- Has 47 Columns, 566743 rows
- Eliminate into 15 columns
- Divide between import and export
- for export missing value only on netWgt ~3.6% , but has too many 0 values → use mean
- rows has 140293

✓	reporterCode	Numeric code for the country/region that reported the trade (e.g., exporting country)
	reporterDesc	Name of the reporting country or region (e.g., "Japan", "Germany")
	partnerCode	Numeric code for the trade partner country (e.g., the importer)
✓	partnerDesc	Name of the partner country or region (e.g., "USA", "Korea, Rep.")
✓	refYear	Year the trade was reported
✓	refMonth	Month of the trade record (may sometimes represent week number if unusual)
	flowCode	Numeric code indicating trade flow: usually 1 = Import, 2 = Export
✓	flowDesc	Trade flow direction — either "Import" or "Export"
	cmdCode	Harmonized System (HS) commodity code — classifies the traded product (e.g., "8542" for integrated circuits)
	cmdDesc	Text description of the commodity (e.g., "Electronic integrated circuits")
✓	fobvalue	Free On Board value — cost of goods at point of export (good for export-focused value)
	cifvalue	Cost, Insurance, and Freight — includes shipping/import costs (useful for import-side analysis)
✓	netWgt	Net weight of the goods being traded (excluding packaging), usually in kilograms
	grossWgt	Gross weight of the shipment (including packaging), in kilograms

Monthly EDA





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