

Dashboard Sales Analytics

Aplikasi dashboard sales analytics menggunakan Streamlit dengan visualisasi interaktif.

Struktur Project

```
TugasABD/  
├── app.py                # Aplikasi utama (versi sederhana)  
├── data/                 # Folder data CSV  
│   ├── customers.csv  
│   ├── products.csv  
│   └── order_details.csv  
├── requirements.txt      # Dependencies  
└── Jet/                 # Versi aplikasi dengan visualisasi advanced  
    ├── app.py  
    ├── data/  
    └── requirements.txt
```

Deploy ke Streamlit Cloud

1. Push ke GitHub

```
git add .  
git commit -m "Deploy to Streamlit"  
git push origin main
```

2. Deploy di Streamlit Cloud

1. Buka share.streamlit.io
2. Sign in dengan GitHub
3. Klik "New app"
4. Pilih:
 - Repository: [PutuNgurahSemara/TugasABD](#)
 - Branch: [main](#)
 - Main file: [app.py](#) atau [Jet/app.py](#)
5. Klik "Deploy"!

Run Locally

```
# Install dependencies  
pip install -r requirements.txt  
  
# Run aplikasi
```

```
streamlit run app.py
```

```
# Atau versi Jet
```

```
cd Jet
```

```
streamlit run app.py
```

Features

Versi Standard (app.py)

- ☒ Customer management dengan filter usia
- ☒ Product analytics dengan bar chart
- ☒ Order tracking dan trends
- ☒ Export data ke CSV

Versi Jets (Jet/app.py)

- ☒ Interactive Plotly visualizations
- ☒ Advanced analytics dashboard
- ☒ Time series analysis
- ☒ Heatmaps dan scatter plots
- ☒ Customer segmentation
- ☒ Product performance metrics

Data

Data disimpan dalam format CSV di folder **data/**:

- **customers.csv**: Data pelanggan (100 records)
- **products.csv**: Data produk (50 records)
- **order_details.csv**: Detail transaksi (400+ records)

Tech Stack

- **Streamlit**: Web framework
- **Pandas**: Data manipulation
- **Plotly**: Interactive visualizations (Jet version)
- **Matplotlib**: Static charts (Standard version)