

Dashboard Sales Analytics

Aplikasi dashboard sales analytics menggunakan Streamlit dengan visualisasi interaktif.

📁 Struktur Project

```
TugasABD/
├── app.py                  # Aplikasi utama (versi sederhana)
├── data/
│   ├── customers.csv
│   ├── products.csv
│   └── order_details.csv
├── requirements.txt          # Dependencies
└── Jet/
    ├── 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)