

Customer Churn Prediction - Quick Start Guide

This guide provides step-by-step instructions to run the Customer Churn Prediction project locally, including both the FastAPI backend and the Streamlit dashboard. Docker is not required.

1. Setup Environment

1. Clone the repository:

```
git clone <repo_url>
```

```
cd customer-churn-end2end
```

2. Create a Python virtual environment:

```
python -m venv venv
```

3. Activate the virtual environment:

Windows: .\venv\Scripts\activate

Mac/Linux: source venv/bin/activate

4. Install project dependencies:

```
pip install --upgrade pip
```

```
pip install -r requirements.txt
```

2. Running the Project

Option 1 - 1-click start (Windows PowerShell):

```
.\run_my_apps.ps1
```

Option 2 - Manual start:

1. Start FastAPI backend:

```
uvicorn app.api:app --reload --host 127.0.0.1 --port 8000
```

2. Start Streamlit dashboard:

```
streamlit run app/streamlit_app.py
```

3. Important Notes

- Keep the virtual environment (venv) active.
- Ensure FastAPI is running before starting Streamlit.

- If PowerShell blocks scripts, use: Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass