Smart Expense Tracker

A simple command-line Python based application to record and manage daily expenses. This project helps users record their spending and understand where their money goes.

This project was built to practice Python fundamentals such as file handling, modular programming, and basic data processing.

About the Project

Managing daily expenses can be difficult without proper tracking. This Smart Expense Tracker allows users to:

- Record expenses with amount, category, and notes
- Store data in a CSV file
- View saved expenses
- Understand total spending
  The goal of this project is to build a clean and structured Python application while learning software organization and Git usage.

It is built using basic Python concepts like:

- Classes
- Functions
- File handling
- Loops and conditionals

Features

- Add a new expense
- View all expenses
- Store data in CSV format
- Simple menu-based CLI interface
- Modular code structure

Folder/project structure

smart-expense-tracker/
│
├── data/
│ └── expenses.csv # CSV file storing expense data
│
├── tracker/
│ ├── **init**.py # Makes tracker a Python package
│ ├── analytics.py # Functions for analyzing expenses
│ ├── utils.py # Helper functions
│ ├── expense.py # Expense model
│ └── storage.py # CSV handling logic
│
├── main.py # Application entry point
├── README.md # Project documentation
└── .gitignore # Git ignore rules

Installation Steps:

1. Clone repo

git clone https://github.com/yourusername/smart-expense-tracker.git
cd smart-expense-tracker

2. Create virtual environment

python -m venv venv
source venv/bin/activate # Windows: venv\Scripts\activate

3. Install dependencies

pip install -r requirements.txt

4. Run app

python main.py

Tech Stack(Built With)

- Python 3.x
- CSV module
- Dataclasses
- Git & GitHub (for version control)

No external libraries required.

What I Learned From This Project

- Creating reusable Python modules
- Working with CSV files
- Handling user input safely
- Structuring a small application
- Using Git commits properly
- Writing a clear and professional README

Author

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