

# Python Personal Finance Manager

## Project Overview

The Python Personal Finance Manager is a menu-driven command-line application developed using Python. It helps users track daily expenses, store data persistently using CSV files, and analyze spending patterns using reports.

## Project Objectives

- Track personal expenses efficiently
- Store expense data using CSV files
- Analyze spending by category
- Generate total and average expense reports
- Practice real-world Python programming concepts

## Key Features

- 1 Add, view, and search expenses
- 2 Category-wise expense summary
- 3 Total and average expense calculation
- 4 CSV-based data persistence
- 5 Input validation and error handling
- 6 Backup and restore functionality
- 7 Object-oriented design

## Technologies Used

Python, Object-Oriented Programming, CSV Module, File Handling, Exception Handling

## Project Structure

main.py – Application entry point  
expense.py – Expense class definition  
file\_manager.py – CSV read/write operations  
reports.py – Analytics and summaries  
utils.py – Input validation utilities  
expenses.csv – Stored expense data

## Learning Outcomes

This project helped in strengthening Python fundamentals, OOPS concepts, file handling, error handling, and analytical thinking through a real-world application.

## **Author**

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## **Project Status**

Completed and Interview Ready