Personal Finance Management Web App

This is a Django-based web application that helps users track income, expenses, set monthly budgets, and view financial reports with forecasting.

Features

- User authentication (register/login/logout)

- Dashboard overview of income, expenses, and savings

- Add/Edit/Delete transactions

- Set monthly budgets and get over-budget alerts

- Monthly financial report with budget editing and highlights

- Predict next months expenses using linear regression

- Visualize forecasted expense trends with charts

Screenshots

- Edit Transaction

- Expense Forecast

- Edit Budget

- Monthly Financial Report

- Dashboard Overview

Tech Stack

- Backend: Django (Python)

- Frontend: HTML, CSS, Bootstrap

- Database: SQLite (default)

- Charting: Chart.js

- ML Forecasting: scikit-learn, pandas

Folder Structure

- finance/ - Django app with views, models, and templates

- templates/finance/ - All HTML pages

- static/ - CSS, JS files

- media/ - Uploaded files (if any)

Setup Instructions

1. Clone the repo:

```

git clone <repo_url>

```

2. Create virtual environment & install dependencies:

```
python -m venv env

source env/bin/activate  # on Windows: env\Scripts\activate

pip install -r requirements.txt
```

3. Run migrations:

```
python manage.py makemigrations

python manage.py migrate
```

4. Create superuser:

```
python manage.py createsuperuser
```

5. Run the server:

```
python manage.py runserver
```

Forecasting

The app uses linear regression to forecast expenses for the next 3 months and shows the predicted value for the next month prominently.

Reports

You can view monthly summaries of your income, expenses, savings, and budget. Over-budget months are highlighted in red.

Note

This app is a personal project for learning Django and basic data analytics integration.

FinanceApp

Dashboard Logout Add Income Add Expense

Your Dashboard

Hello, sakshi ! 👋

Total Income ₹132000	Total Expenses ₹54400	Savings ₹77600

➕ Set Budget   📄 View Monthly Report   🎨 View Your Expense Forecast

Your Financial History

Date	Type	Category	Amount	Action
July 11, 2025	Income	Gift	₹2000.00	Edit Delete
July 10, 2025	Income	Bonus	₹10000.00	Edit Delete
July 5, 2025	Expense	Utilities	₹1000.00	Edit Delete
July 1, 2025	Expense	Food	₹500.00	Edit Delete
July 1, 2025	Income	Salary	₹30000.00	Edit Delete

Edit Transaction

Date: 11-07-2025

Category: Gift

Amount: 2000.00

Update Transaction

Income

📅 Monthly Financial Report

Total Income	Total Expenses	Total Savings
₹132000.00	₹54400.00	₹77600.00

Month	Income (₹)	Expenses (₹)	Savings (₹)	Budget	Action
April 2024	30000.00	1200.00	28800.00	₹2000.00	Set Budget +
May 2024	30000.00	1700.00	28300.00	₹1000.00 Over Budget	Set Budget +
June 2024	30000.00	4500.00	25500.00	—	Set Budget +
July 2024	0	4600.00	4600.00	—	Set Budget +
August 2024	0	5500.00	5500.00	—	Set Budget +
September 2024	0	4000.00	4000.00	—	Set Budget +
October 2024	0	3400.00	3400.00	—	Set Budget +
November 2024	0	2200.00	2200.00	—	Set Budget +

Edit Monthly Budget

Month

5

Year

2024

Budget (₹)

1000

Save Budget

Budget updated successfully!

← Back to Report

📊 Expense Forecast

💡 Predicted Expense for Aug 2025:

₹3357.5

Expense Trend & Forecast

— Past Expenses ····· Forecasted Expenses