

# ReportBot

*A sample project README, the documentation format used on virtually every software project*

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ReportBot is a lightweight command-line tool that automates the creation of recurring reports from CSV data. It is designed to be simple enough for non-developers to set up and reliable enough to run unattended on a schedule.

*This README is a technical writing sample demonstrating clean project documentation: overview, installation, usage, configuration, and contribution guidance.*

## Features

- Compiles totals and summaries from any CSV file in seconds
- Runs from a single command, no programming required to operate
- Schedulable for automatic, recurring generation
- Clear error messages that tell you exactly what to fix

## Requirements

- Python 3.9 or higher
- A CSV data file with a header row

## Installation

Clone the repository and install dependencies:

```
git clone https://github.com/example/reportbot.git
cd reportbot
pip install -r requirements.txt
```

## Usage

Run ReportBot against a data file:

```
python reportbot.py --input data.csv --column amount
```

Arguments:

Argument	Required	Description
--input	Yes	Path to the CSV file to process.
--column	Yes	The name of the numeric column to total.
--output	No	Path to write results. Prints to screen if omitted.

## Configuration

To schedule ReportBot to run automatically, add it to your system scheduler (Windows Task Scheduler or cron). For example, to run every Monday at 9 AM with cron:

```
0 9 * * 1 python /path/to/reportbot.py --input data.csv --column amount
```

## Troubleshooting

Issue	Resolution
FileNotFoundError	Check that the --input path is correct and the file exists.
KeyError on column	Verify the --column name matches a header in your CSV exactly.

## **Contributing**

Contributions are welcome. Please open an issue to discuss a change before submitting a pull request, and follow the existing code style. Run the test suite with `pytest` before submitting.

## **License**

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