

# CODTECH Internship - Task 2 Report

## Objective:

Develop a Python script that reads data from a file, analyzes it, and generates a formatted PDF report using libraries like FPDF or ReportLab.

## Tools & Libraries Used:

- Python 3
- Pandas (for data handling and analysis)
- ReportLab (for PDF report generation)

## Implementation Summary:

The script reads a CSV file named **data.csv** containing employee details such as Name, Age, Department, and Salary. It performs descriptive statistics on numeric fields (Age, Salary) using **pandas.DataFrame.describe()**. Then it generates **report.pdf**, summarizing the results in a well-formatted PDF document.

## Sample Output (report.pdf):

### Data Analysis Report

**Age:** {'count': 5.0, 'mean': 31.8, 'std': 5.674504383644443, 'min': 26.0, '25%': 28.0, '50%': 30.0, '75%': 35.0, 'max': 40.0}

**Salary:** {'count': 5.0, 'mean': 53400.0, 'std': 14415.269681833914, 'min': 40000.0, '25%': 42000.0, '50%': 50000.0, '75%': 60000.0, 'max': 75000.0}

## Conclusion:

This task successfully demonstrates automated data analysis and PDF report generation using Python. It shows how analytical results can be converted into a professional PDF document automatically.