

# Weekly Progress Report

Name: Hari Krishnan V

Domain: PYTHON INTERN

Date of submission:09-03-25

**Week Ending: 03**

## **I. Overview:**

This week, the primary focus was on learning data handling and manipulation using Numpy and Pandas, which are essential libraries for data analysis and scientific computing in Python. The tasks included understanding Numpy arrays, basic operations, and pandas DataFrames, along with practical implementation.

## **II. Achievement:**

- Learning Numpy basics, including array creation, indexing and slicing.
- Performing Numpy operations such as mathematical computations, reshaping, and aggregations.
- Practiced data filtering, sorting, and applying operations in pandas.

## **III. Challenges:**

- Faced difficulties in understanding Numpy's broadcasting and vectorized operations.
- Had initial confusion while handling missing data in pandas.
- Debugging errors while converting datasets into pandas Dataframes required extra effort.

## **IV. Learning Resources:**

- Referred to official Numpy and Pandas documentation.
- Used platforms like GeeksforGeeks, W3Schools, for practicing examples.

## **V. Next Week's Goals:**

- Explore advanced Pandas operations, including grouping, merging, and pivot tables.
- Work on real-world data analysis projects using Numpy and Pandas.

- Start integrating data visualization tools like matplotlib and seaborn.

## **VI. Additional Comments:**

This week provided a solid foundation in data manipulation and analysis using Numpy in data manipulation and analysis using Numpy and Pandas. The hands-on exercises improved my problem-solving skills, and I look forward to applying these concepts in data-driven projects.