**TASK 2: UNEMPLOYMENT ANALYSIS WITH PYTHON**

**Documentation & Report**

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**1. Title**

**Unemployment Analysis Using Python**

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**2. Objective**

The objective of this task is to analyze unemployment trends using real-world data and visualize how unemployment rates change over time, especially during significant events like COVID-19.

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**3. Description**

This project focuses on analyzing unemployment data using Python. Data analysis and visualization techniques are applied to understand patterns, trends, and variations in unemployment rates.

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**4. Dataset**

- Name: Unemployment Dataset
- Format: CSV file
- Content:
    - Year
    - Region/Area
    - Unemployment rate
- Source: Provided by OIB-SIP internship

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**5. Tools & Technologies Used**

- Python
- Jupyter Notebook
- Pandas

- Matplotlib
- Seaborn

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**6. Methodology**

1. Loaded the unemployment dataset using Pandas
2. Cleaned and processed the data
3. Analyzed unemployment trends
4. Created visualizations such as line graphs and bar charts
5. Observed changes in unemployment rate over time

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**7. Result**

The analysis showed clear trends in unemployment rates. A significant increase was observed during the COVID-19 period, indicating its impact on employment.

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**8. Conclusion**

This task improved understanding of data analysis and visualization. Python proved to be an effective tool for analyzing large datasets and presenting insights clearly using graphs.

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