

Inflation Effects and Future Work Insights


 **Executive Summary** This project integrates datasets covering inflation trends in Egypt, job postings, and salary data to analyze the real impact of inflation on employment and income levels. Additionally, we assess job market dynamics and skill demand fluctuations to identify future-proof career paths. Using SQL databases, Python for data analysis, and Tableau for visualization, we aim to generate data-driven insights and recommendations.

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Project Objectives

1. Examine how inflation trends impact salaries and job availability in Egypt.
 2. Identify the skills and qualifications most resilient to inflation-driven economic shifts.
 3. Provide recommendations on in-demand skills and future-proof career choices.
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Dataset Overview

- **Wuzzuf Jobs Dataset:**
 - Over **19,000 job postings** across various industries.
 - Attributes include:
 - Job title, employer, and location.
 - Salary range and experience requirements.
 - Key skills and qualifications for each role.
- **Inflation Data:**
 - Historical inflation rates across multiple years.
 - Monthly and yearly inflation percentage changes.
 - Economic data sourced from official financial reports.
- **Survey Data (Excel File):**
 - Contains job seekers' and employees' perspectives.
 - Covers salary expectations, challenges in the job market, and skill gaps.

- Highlights how individuals perceive inflation's influence on career growth.

Technologies & Tools

- **Business Intelligence:** Tableau
- **Data Management & Analysis:** SQL, Python

Methodology

1. **Data Integration & Cleaning:**
 - Use Python (Pandas, NumPy) to preprocess and clean the dataset.
 - Perform SQL queries to extract relevant insights.
2. **Business Intelligence & Visualization:**
 - Develop interactive Tableau dashboards for data visualization.
 - Highlight key job market trends and salary-inflation relationships.
3. **Reporting & Insights Generation:**
 - Summarize findings into a structured report and PowerPoint presentation.
 - Provide recommendations on economic resilience through skill acquisition.

Key Performance Indicators (KPIs)

- Salary growth rate compared to inflation trends.
- Percentage of high-demand jobs requiring specific skills.
- Correlation between inflation and employment stability.
- Number of job seekers equipped with future-proof skills.

Project Timeline & Milestones

Phase	Key Activities	Duration
Phase 1	Data collection, cleaning, and preprocessing	2 weeks
Phase 2	Data analysis and visualization creation	1 week
Phase 3	Report compilation and presentation preparation	1 week

Total Duration: **4 weeks**

Deliverables

- A PowerPoint presentation summarizing findings and recommendations.
 - Interactive dashboards displaying job market insights and inflation effects.
 - A structured report detailing skill trends and employment resilience strategies.
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Roles & Responsibilities

- **Youssef Hussien & Doaa Reda:** Data cleaning and preprocessing.
 - **Youssef Hegazi:** Data visualization and dashboard development.
 - **All Team Members:** Contribution to report writing and presentation creation.
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Contact Information

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