Impact of Early School Leaving on the Unemployment and Criminality Rates in the Federal States of Germany in 2022

Introduction

Does a relationship between early school leaving rate and crime rate exist ?

Does a relationship between unemployment rates and early school leaving rates exist ?

Focusing on Year 2022

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Methods and Data Sources

Datasources

Data source 1: Unemployed: Federal states, years, gender Metadata

Data URL: https://www-genesis.destatis.de/genesis/downloads/00/tables/13211-0009_00.csv

Data source 2.1: Early school leavers by federal state

Data URL 1:https://www.govdata.de/web/guest/suchen/-/details/fruhe-schulabganger-innen-nach-bundeslandern%20

Data source 2.2: Police crime statistics - T40 German suspects by age and gender Federal states

Data URL 2:https://www.govdata.de/web/guest/daten/-/details/2022-polizeiliche-kriminalstatistik-t40 -tatverdaechtige-deutsch-nach-alter-und-geschlecht-bundeslaen

Data Type Used: CSV Data

Datasources

- **GovData**

- **Data.europe.eu**

Reliable Open Source Data

Structure and Components

project-plan.md: Used for project planning with GitHub's issues feature.
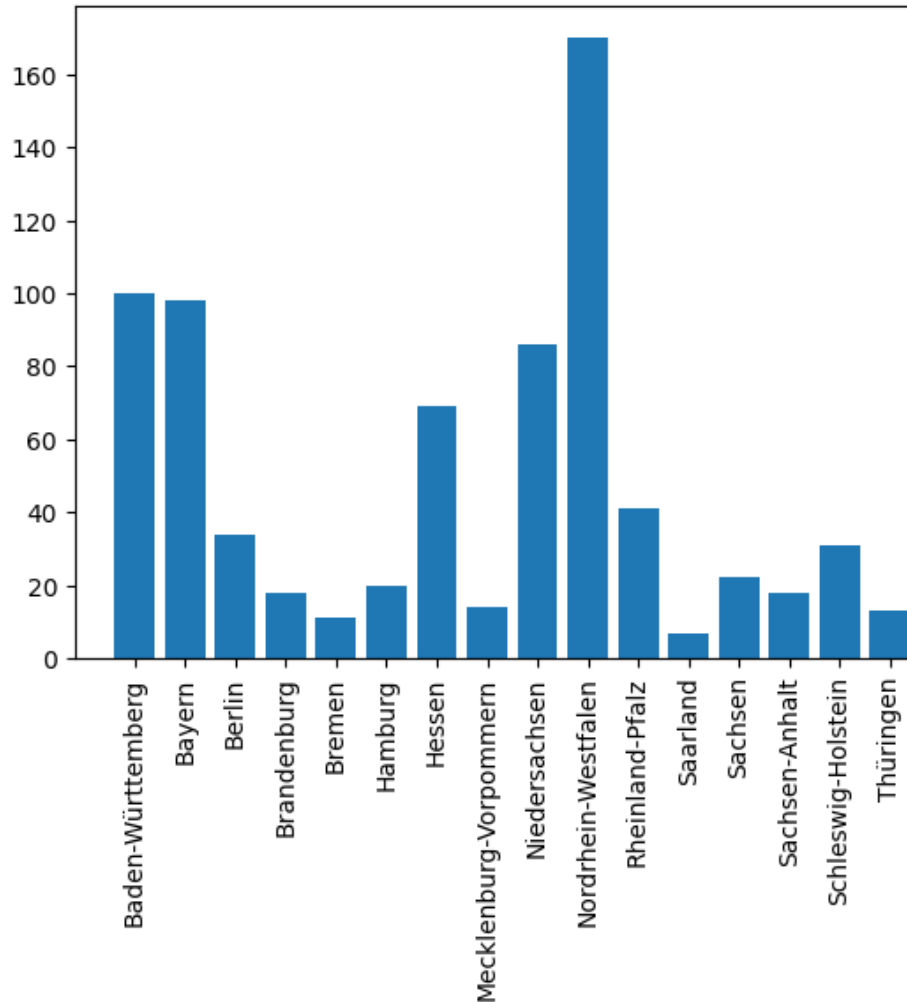
pipeline.py, pipeline.sh: Fetches and stores data in a database.

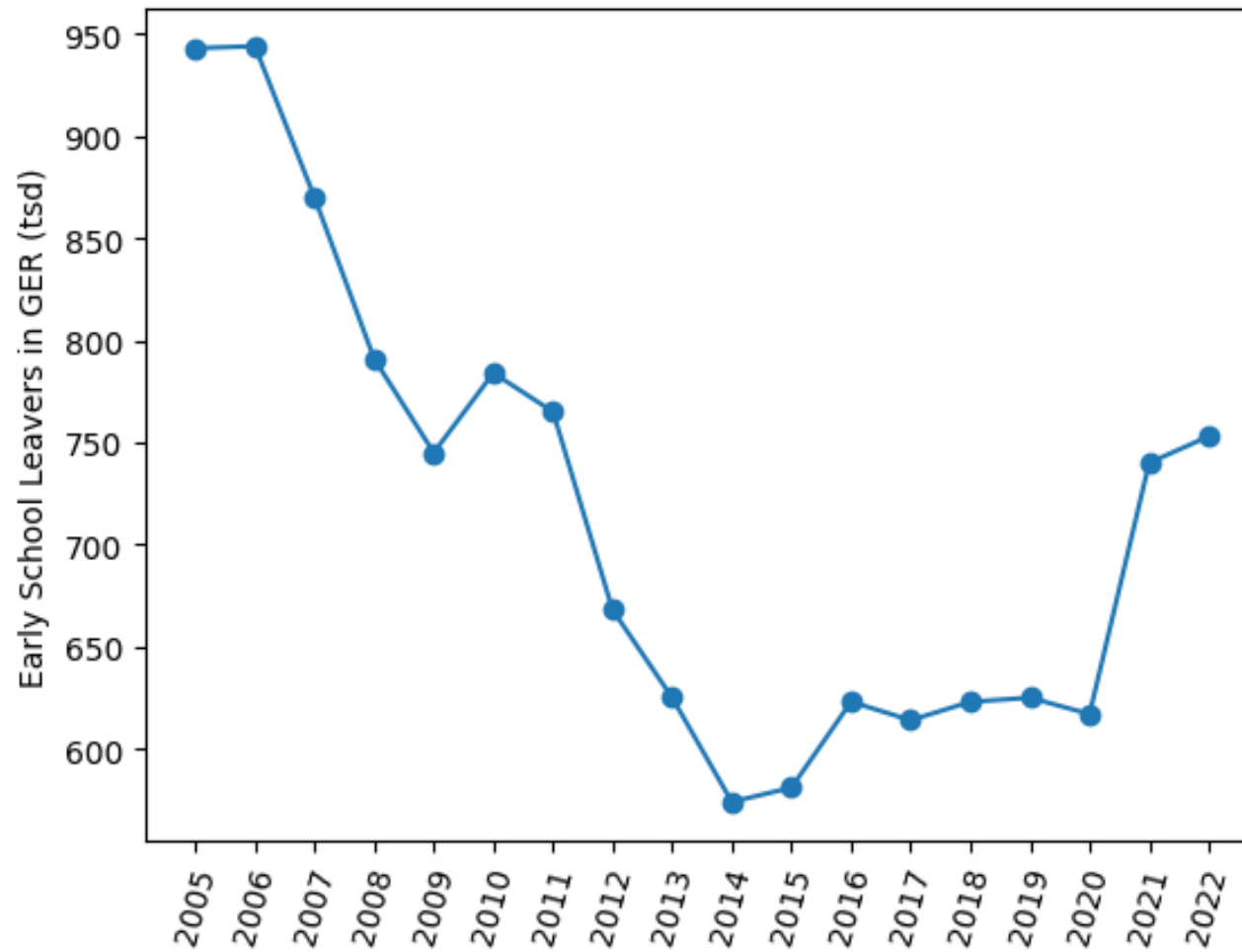**test.py, test.sh:** Contains unit and system tests for functionality robustness.

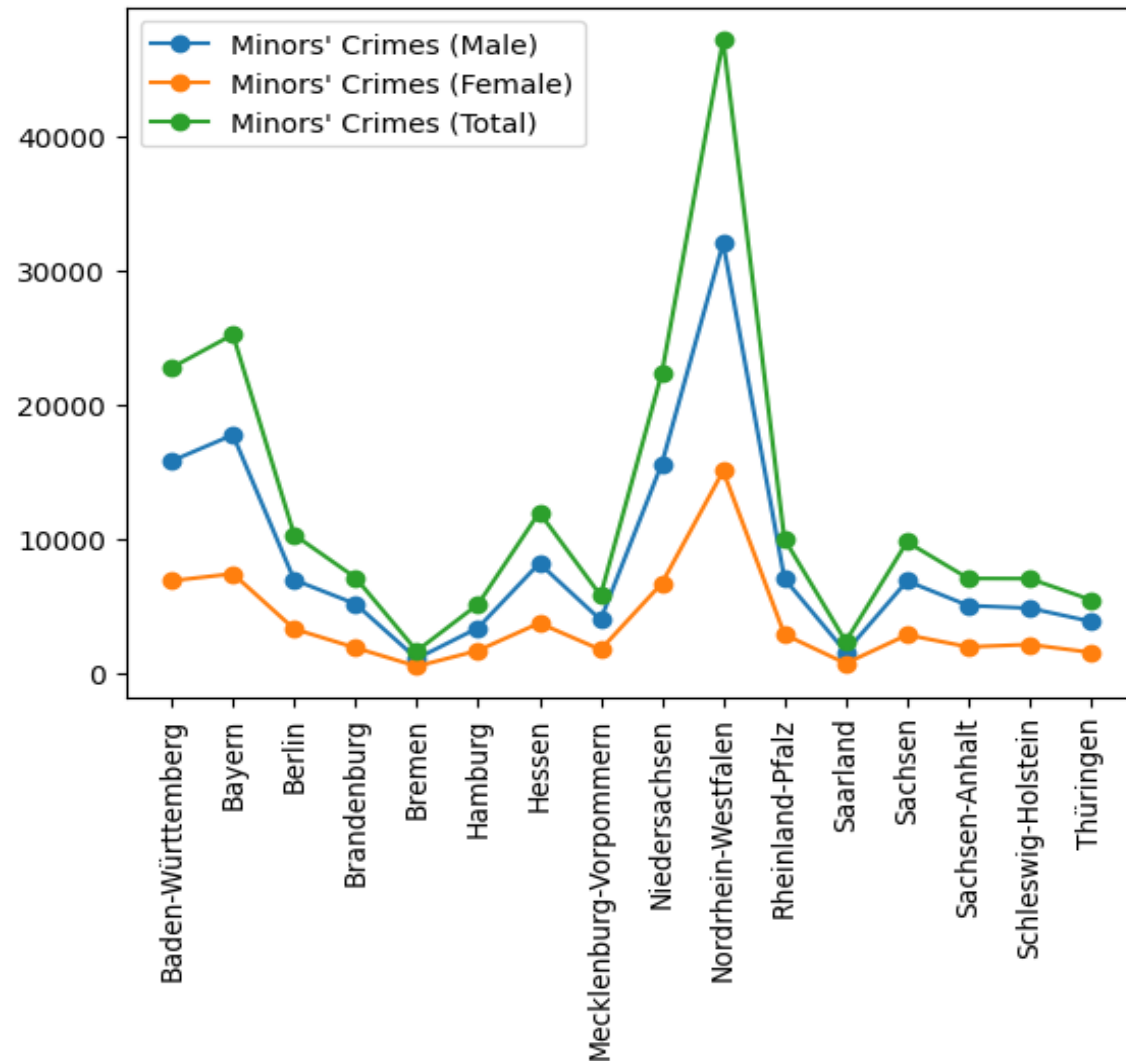**exploration.ipynb:** Explores and assesses dataset suitability.

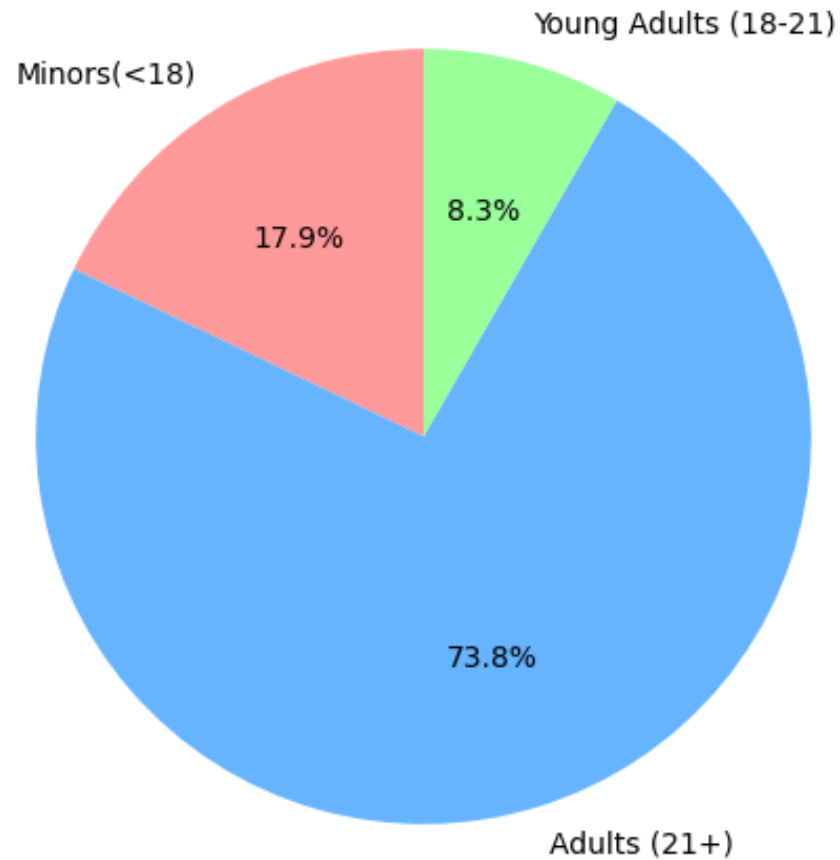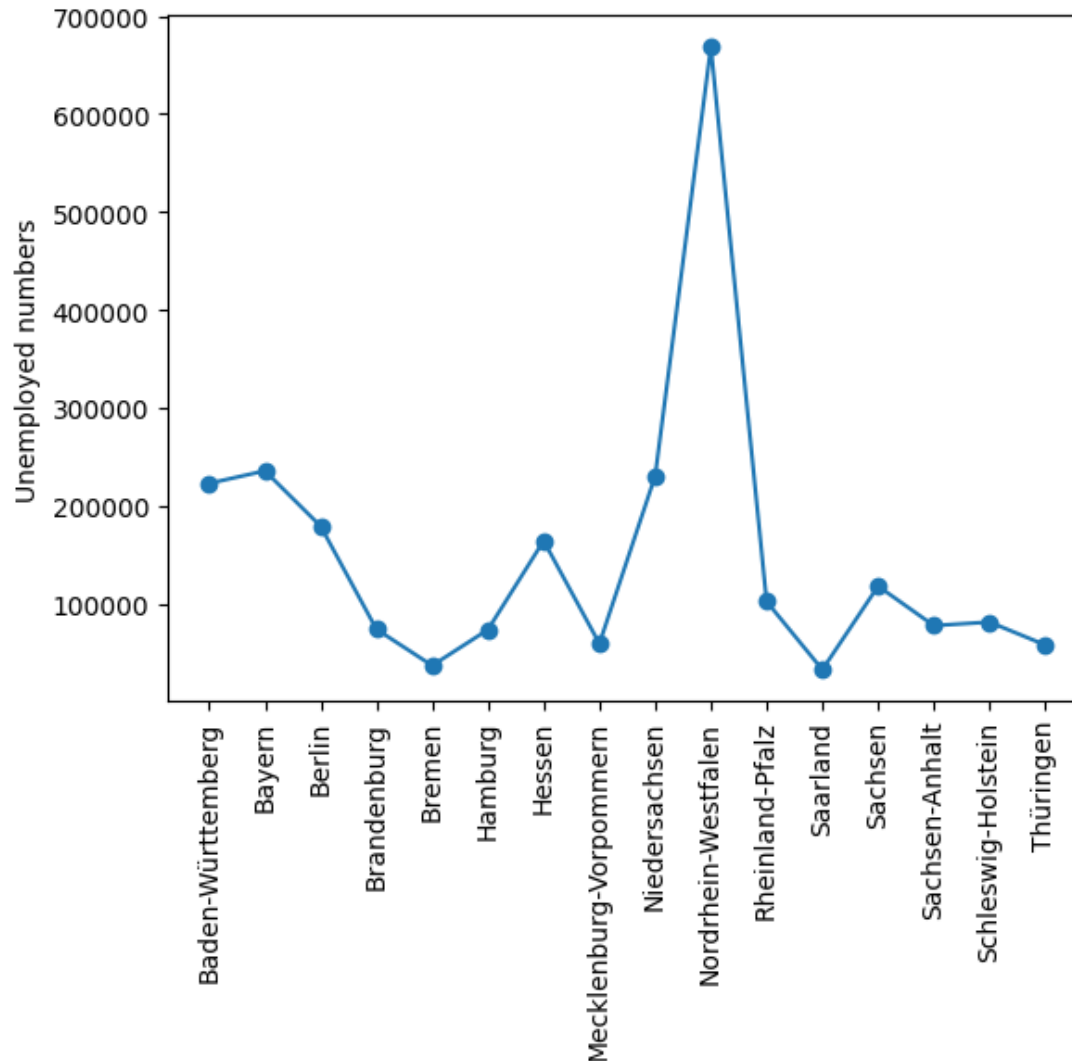**report.ipynb:** Presents the outcomes of the project

Analysis & Results

School dropout rates in 2022

- **Nordrhein-Westfalen recorded the highest number of school leavers**

- **followed by Baden-Württemberg and Bayern**

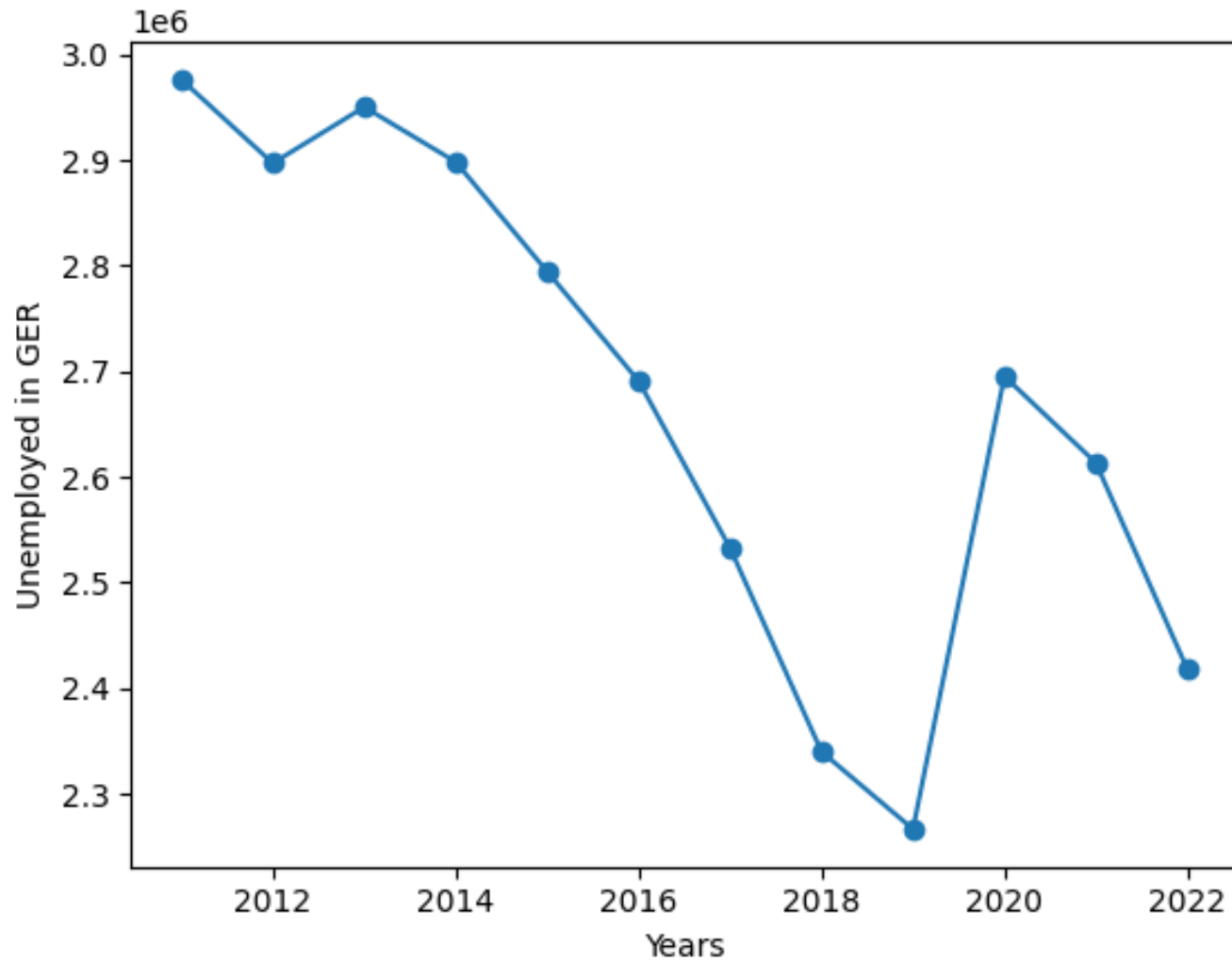# Early School leaving 2005-2022

Crime rates in 2022

- **Nordrhein Westfalen again ranks first, followed by Bayern and Baden-Württemberg**

Crime rates in 2022

Unemployment rates in 2022

- **Highest rate of unemployment recorded in Nordrhein-Westfalen, followed by Bayern and Niedersachsen, which slightly overtook Baden-Württemberg**

Unemployment numbers 2011-2022

Conclusion

Conclusion

➡️ **The visual representations strongly suggest a high correlation between school leaving numbers and unemployment numbers**

➡️ **A high correlation between school leaving numbers and crime numbers is also to suggest**

BUT:

Limitations:

- ➢ **Effect of Corona pandemic on unemployment numbers was not taken into consideration**
- ➢ **Crime numbers were recorded only for German citizens and not migrants whereas early school leaving was not exclusively for Germans.**

Folie zur freien Gestaltung | Weiß

Subheadline möglich. Gegebenenfalls löschen.

[1]: https://www.vectorstock.com/royalty-free-vector/cartoon-comic-kids-children-at-school-vector-15887754

[2]: https://www.studying-in-germany.org/german-states/

Thank You For Your Attention!