

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

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-schulabgangerinnen-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

- **GovData**



**Reliable Open
Source Data**

- **Data.europe.eu**



European data

project-plan.md: Used for project planning with GitHub's issues feature.

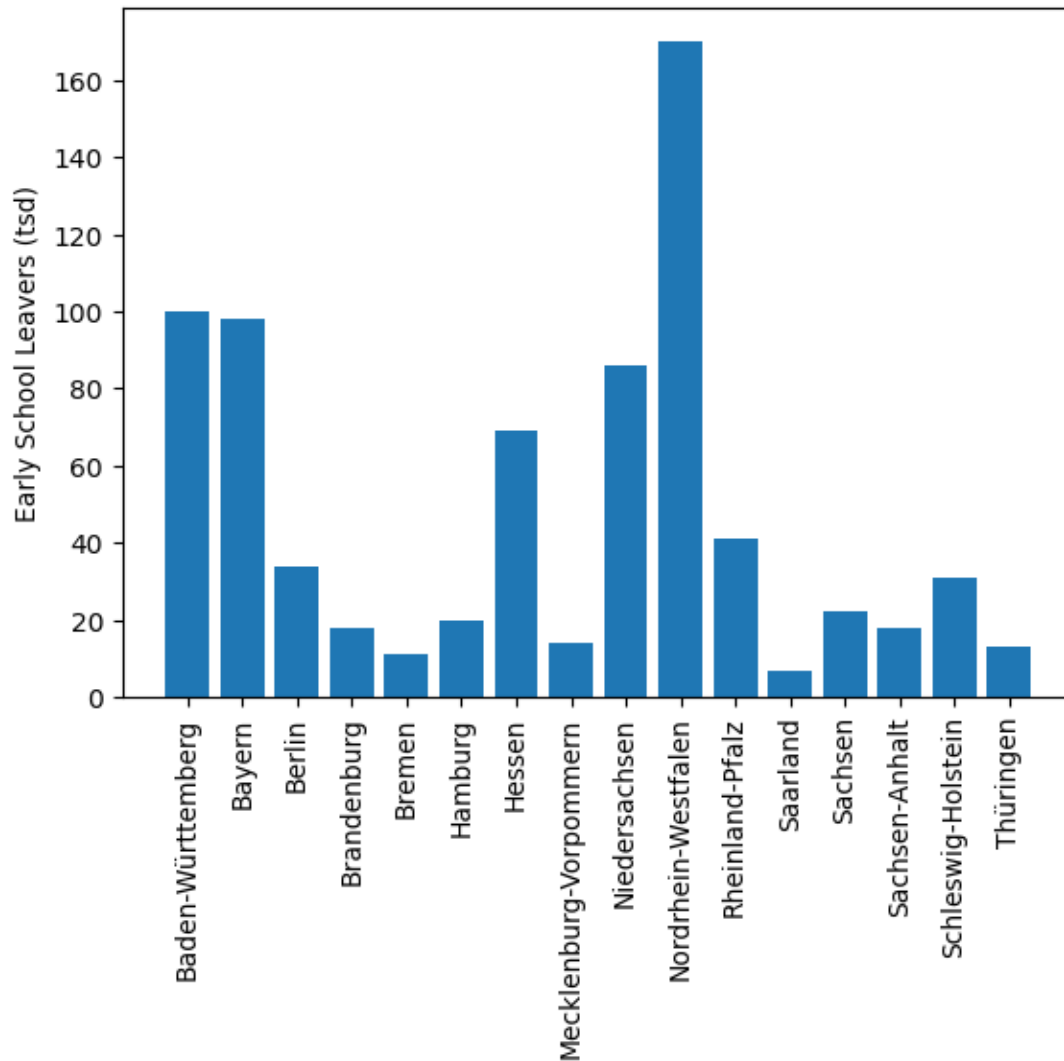
pipeline.py, pipeline.sh: Fetches and stores data in a database.

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

exploration.ipynb: Explores and assesses dataset suitability.

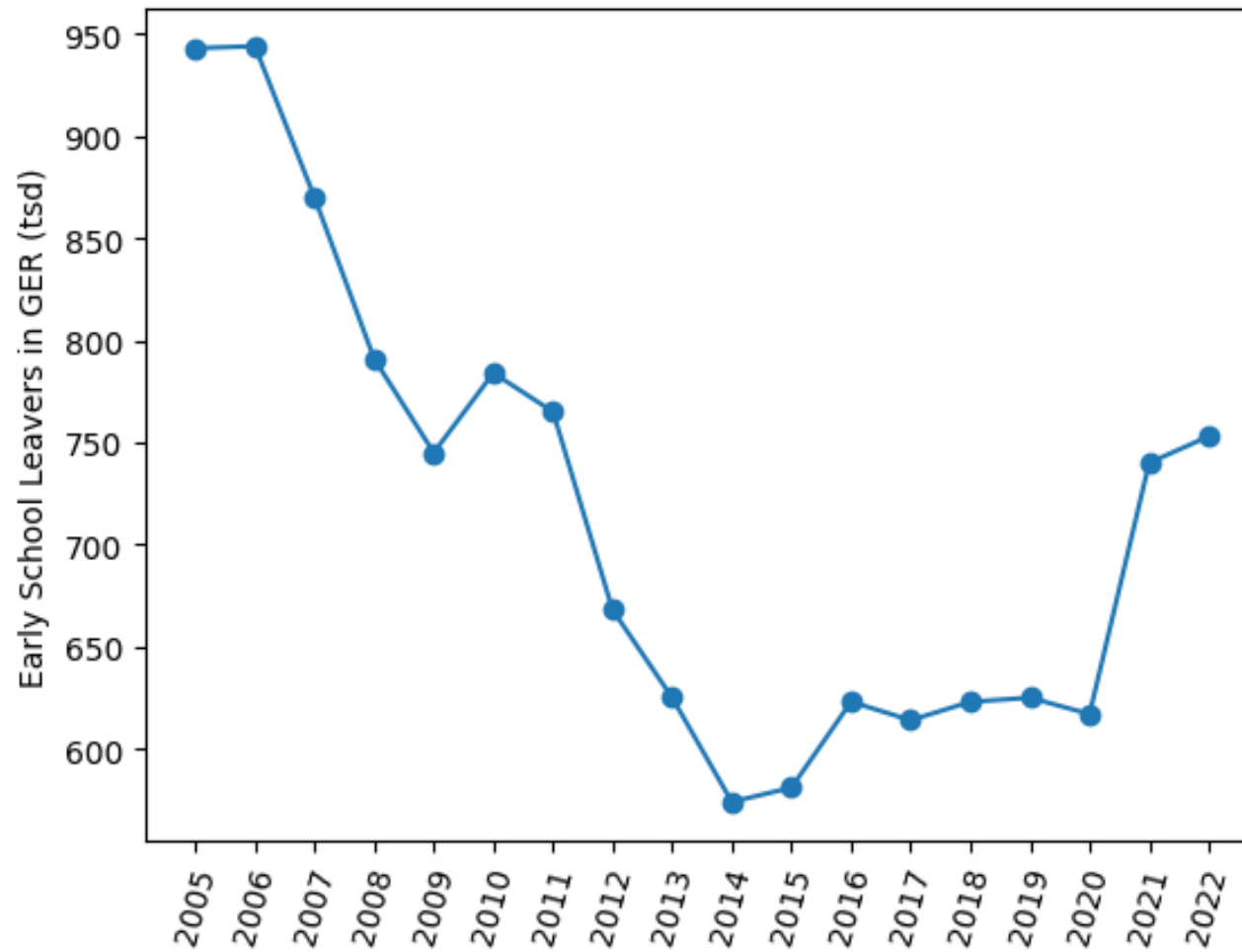
report.ipynb: Presents the outcomes of the project

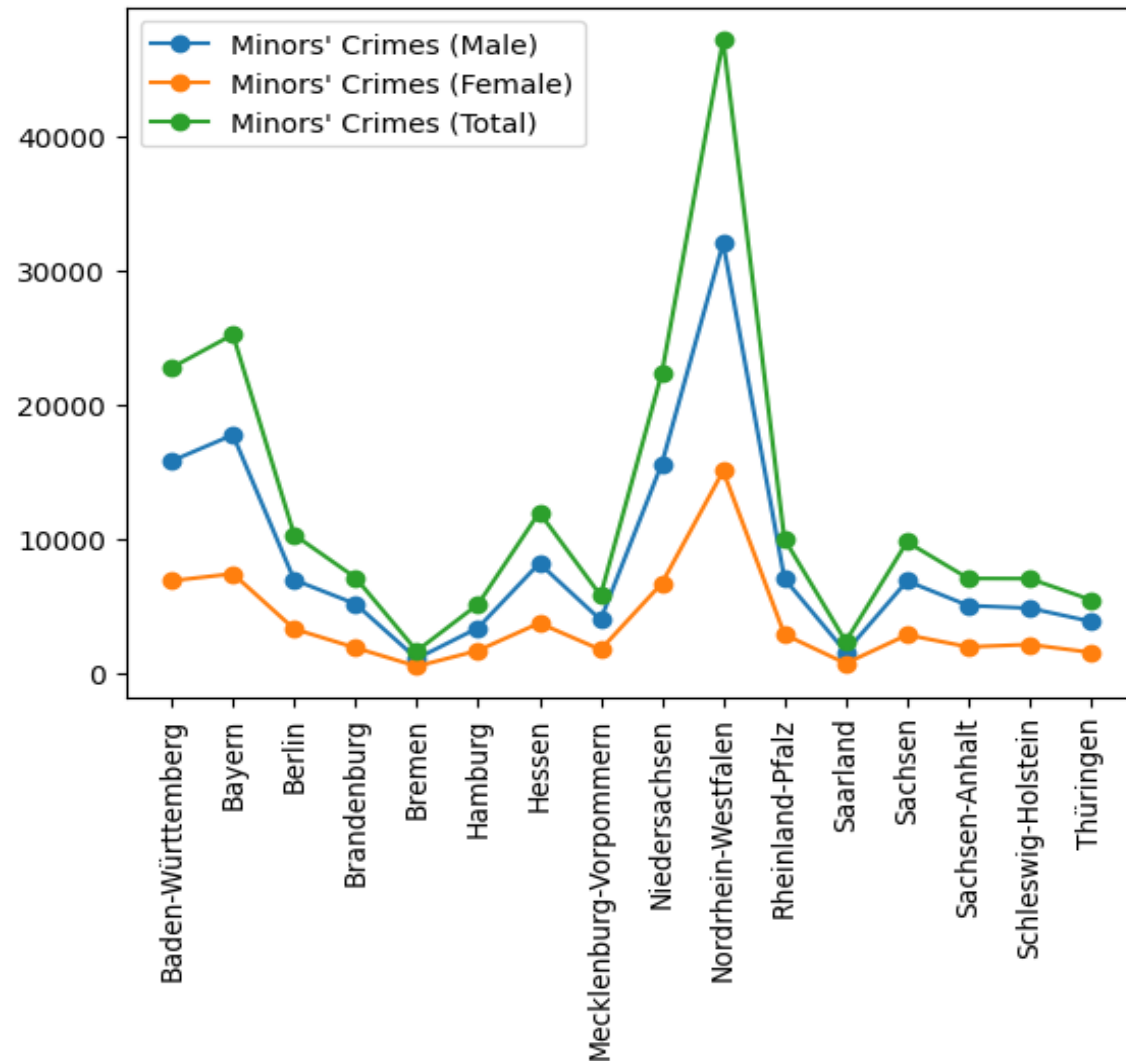
Analysis & Results



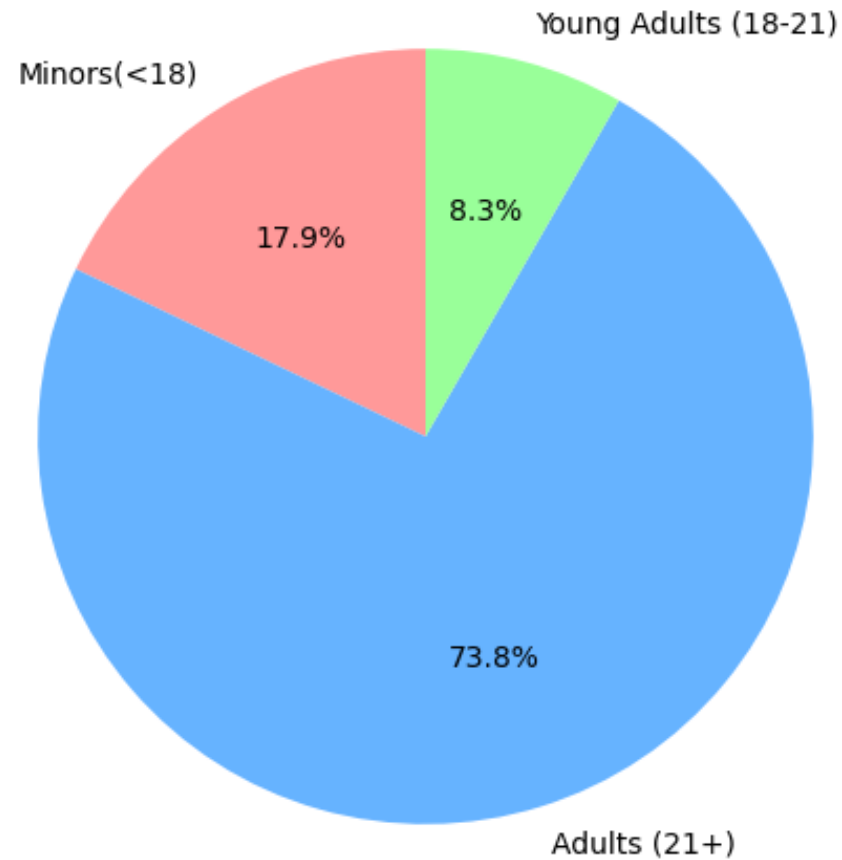
**Nordrhein-Westfalen
recorded the highest
number of school leavers**

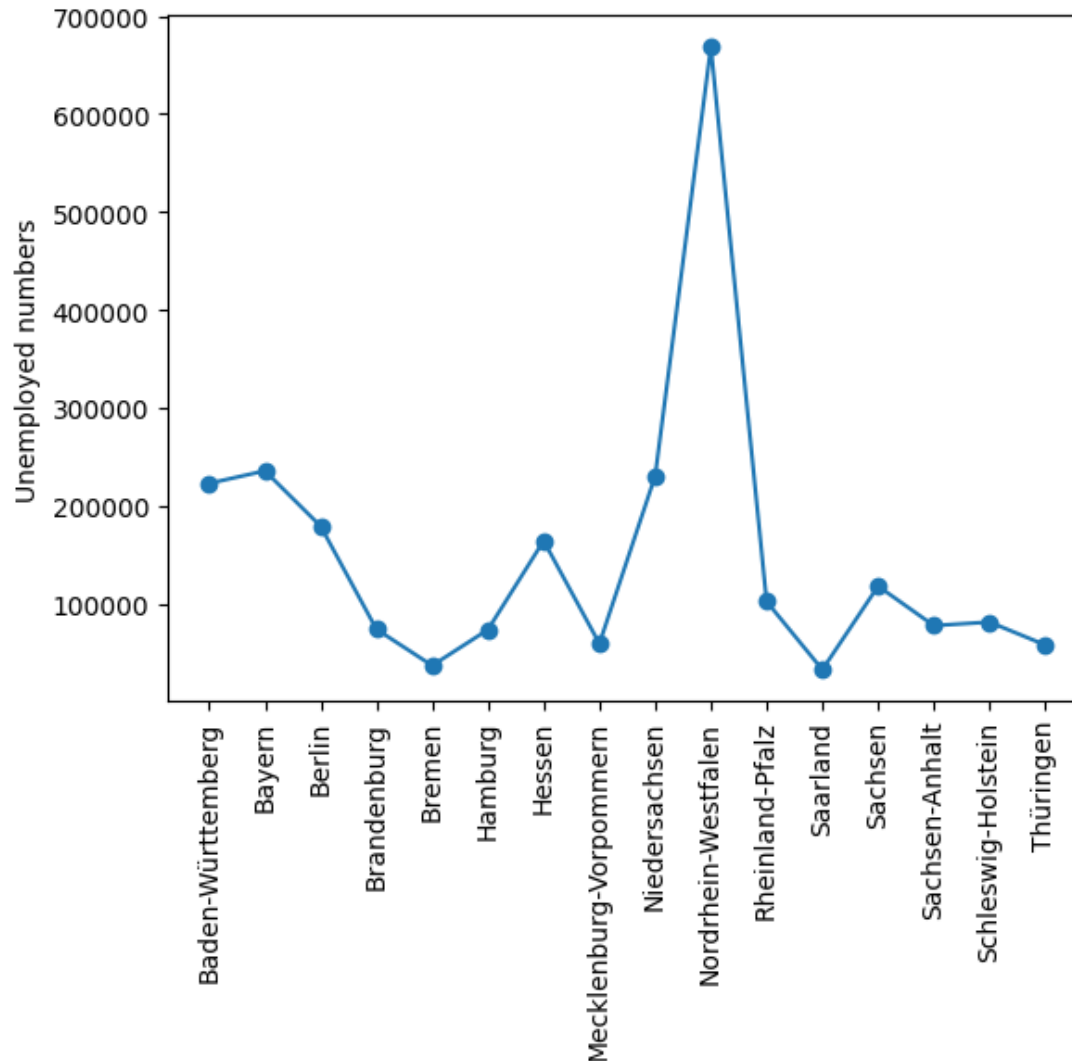
**followed by Baden-
Württemberg and Bayern**



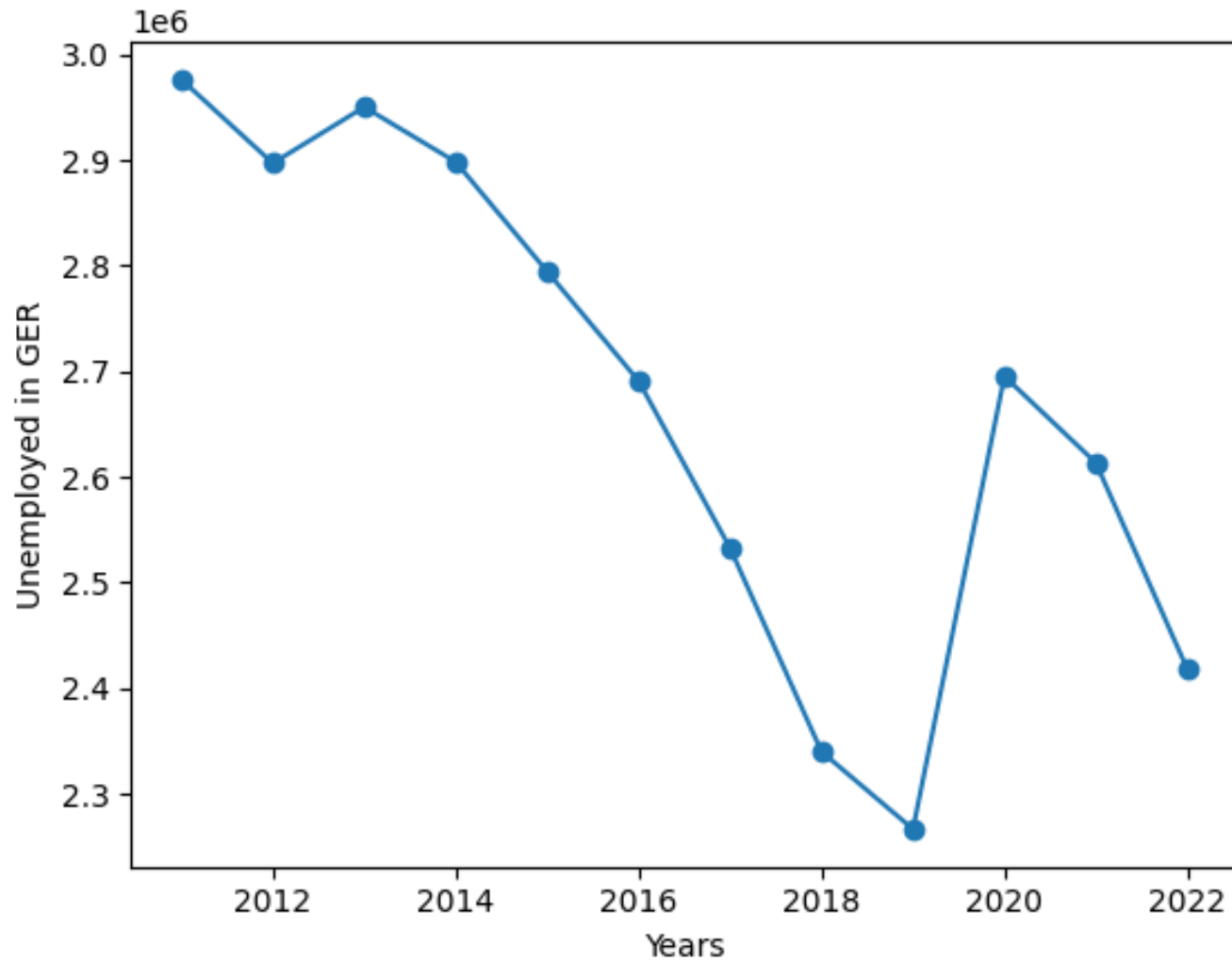


- **Nordrhein Westfalen** again ranks first, followed by **Bayern** and **Baden-Württemberg**





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



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.

[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!