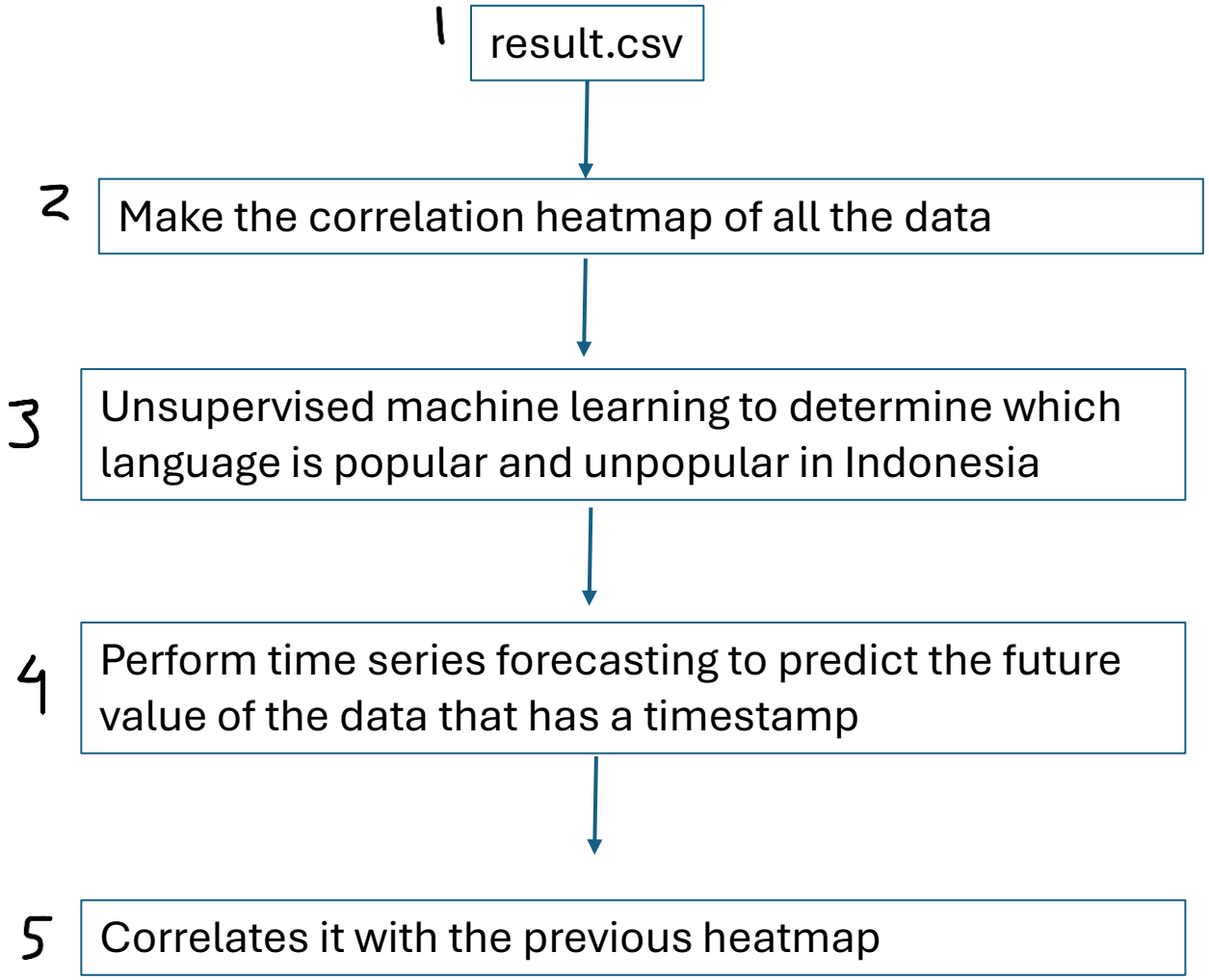
Correlating Programming Language Global Ratings with Job Market and Search Trends in Indonesia: A Machine Learning and Forecasting Approach to Future Insights

Datasets we use

- Result.csv : programming language,tiobe index ratings,job amount,average salary,location,linkedin skill,avg wiki views (monthly),github user count,**average search count**,stack overflow count

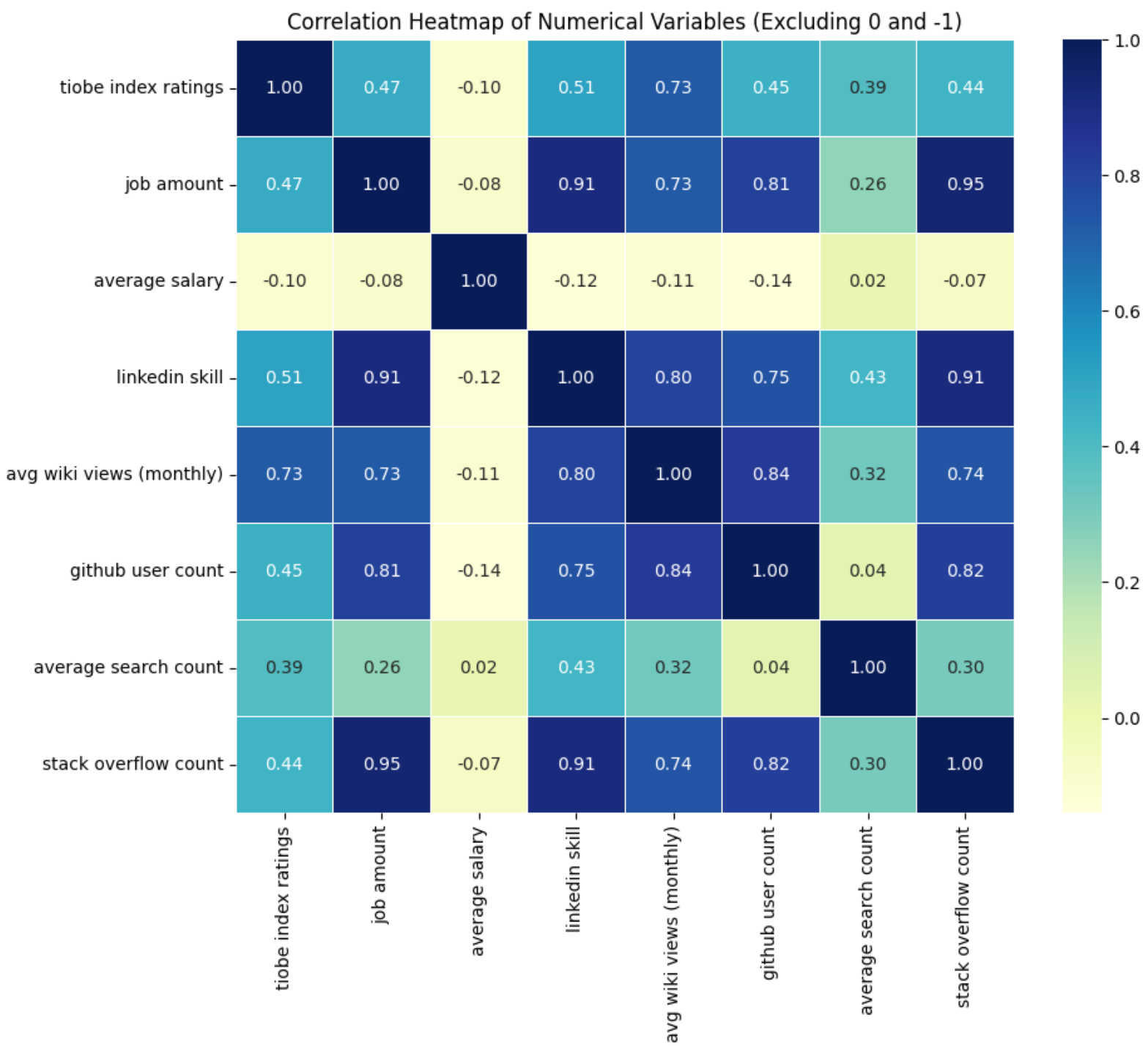
- Time series data:
- gtrend.csv (monthly) = 112 rows
- wiki.csv (monthly) = 112 rows
- tiobe.csv (monthly) = 281 rows
- stackoverflow.csv (yearly) = 10 rows



Example:
We use time series forecasting and got that Python will have an increased stack overflow user count in the next month.

Thus, because stack overflow user count and job amount has a high correlation based on the heatmap, so we can infer that:

In the next month, the job amount of Python will increase too



Example heatmap for step 2