

svd

May 30, 2022

Creating folder svd_plots/windspeedKmph
Creating folder svd_plots/windspeedKmph/reconstuction

0.1 Prepare Data for SVD Analysis

Doing analisys for windspeedKmph
Creating svd file for windspeedKmph
File created!

0.2 SVD

Loading svd file for windspeedKmph

0.2.1 Precision of SVD Resonstrucion

0.2.2 Full Reconstruction & Lower Rank Reconstruction

Diff: 4.3518192208483686e-14
Diff reconstruction: 0.8253357196115587

0.2.3 Average SVD Error

0.2.4 Dates to Concept - SVD_U

0.2.5 Towns to Concept - SVD_V

0.2.6 SVD Maps

Ploting map for k = 0

Ploting map for k = 1

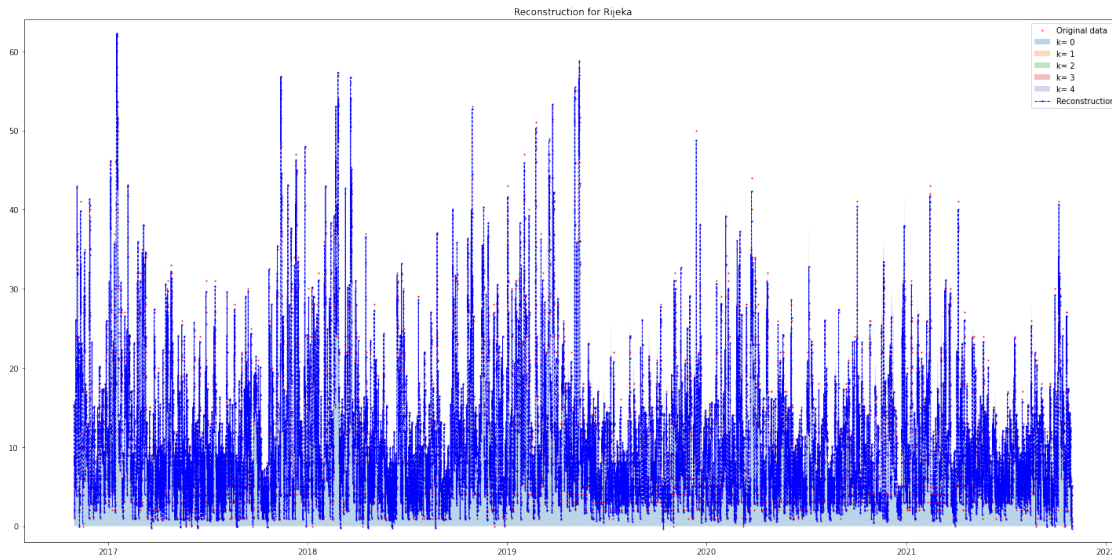
Ploting map for k = 2

Ploting map for k = 3

Ploting map for k = 4

0.2.7 SVD Reconstruction

Saving reconstructins to svd_plots/windspeedKmph/reconstuction



1 Export to HTML

<IPython.core.display.Javascript object>

```
[NbConvertApp] Converting notebook svd.ipynb to HTML
[NbConvertApp] Writing 8437987 bytes to output/windspeedKmph_svd_partial.html
[NbConvertApp] Converting notebook svd.ipynb to pdf
/home/HDD/00-Development/016-Diplomski/venv/lib/python3.9/site-
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with
mimetype(s) dict_keys(['text/html']) is not able to be represented.
  warn(
/home/HDD/00-Development/016-Diplomski/venv/lib/python3.9/site-
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with
mimetype(s) dict_keys(['application/vnd.plotly.v1+json', 'text/html']) is not
able to be represented.
  warn(
/home/HDD/00-Development/016-Diplomski/venv/lib/python3.9/site-
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```
warn(  
/home/HDD/00-Development/016-Diplomski/venv/lib/python3.9/site-  
packages/nbconvert/filters/datatypefilter.py:41: UserWarning: Your element with  
mimetype(s) dict_keys(['application/vnd.plotly.v1+json', 'text/html']) is not  
able to be represented.
```

```
warn(  
[NbConvertApp] Support files will be in windspeedKmph_svd_partial_files/  
[NbConvertApp] Making directory ./windspeedKmph_svd_partial_files  
[NbConvertApp] Writing 60065 bytes to notebook.tex  
[NbConvertApp] Building PDF  
[NbConvertApp] Running xelatex 3 times: ['xelatex', 'notebook.tex', '-quiet']  
[NbConvertApp] Running bibtex 1 time: ['bibtex', 'notebook']  
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no  
citations  
[NbConvertApp] PDF successfully created  
[NbConvertApp] Writing 604967 bytes to output/windspeedKmph_svd_partial.pdf  
[NbConvertApp] Converting notebook svd.ipynb to HTML  
[NbConvertApp] Writing 8379089 bytes to  
output/windspeedKmph_svd_no_code_partial.html
```