Application Correlation and Spectral Clustering

By: Fathimah Fadhilah Khoirunnisa

Tools: Python, Pandas, Scikit-Learn, Streamlit

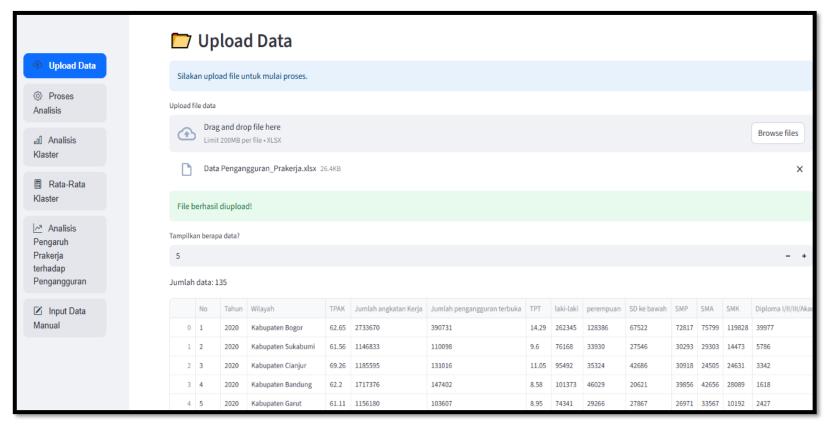
Project Description

To analyze correlations among applicant data variables and perform clustering using Spectral Clustering.

Menu:

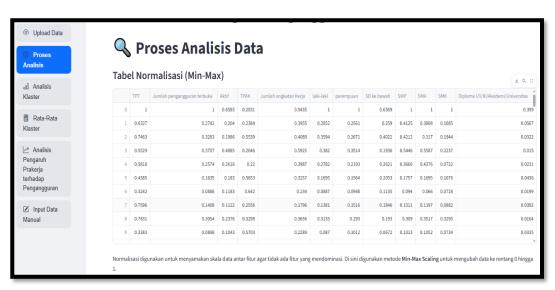
- Upload Data
- Clustering Process
- Cluster Analysis
- Cluster Averages
- Analysis of Prakerja Program Impact on Unemployment
- Manual Data Input

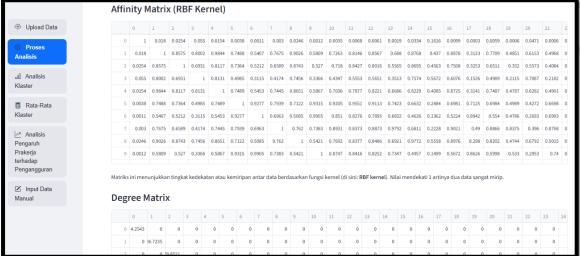
Upload Data

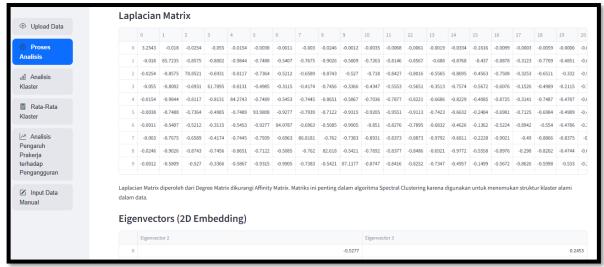


The file has been uploaded and is ready for analysis. You can also choose how many rows of data to display

Clustering Process

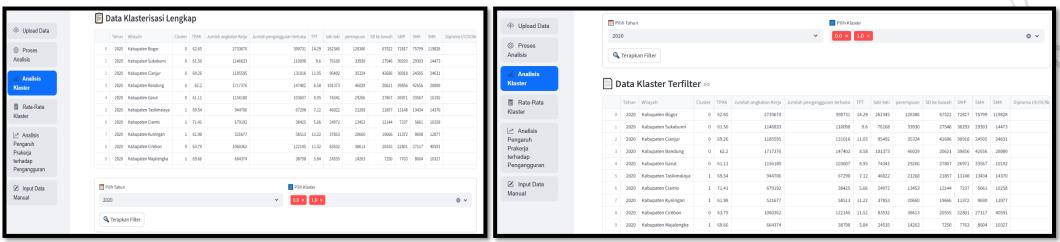


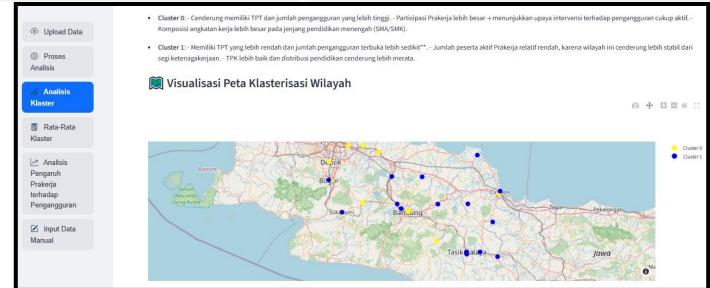




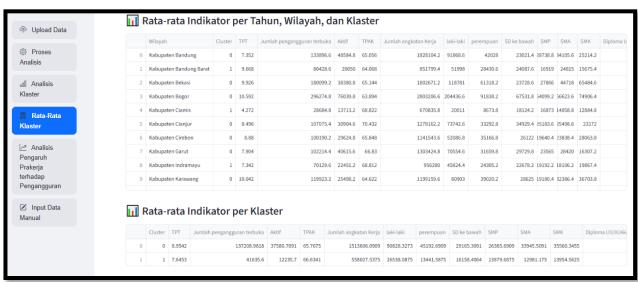


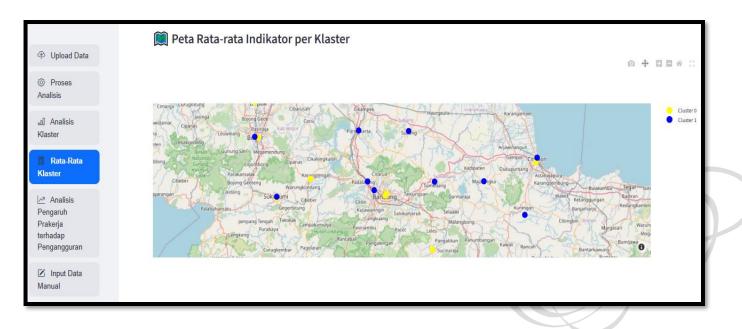
Cluster Analysis



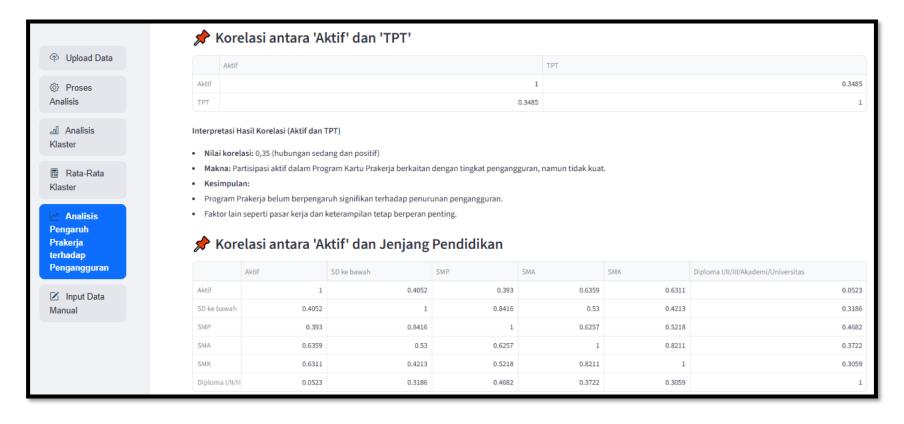


Cluster Averages

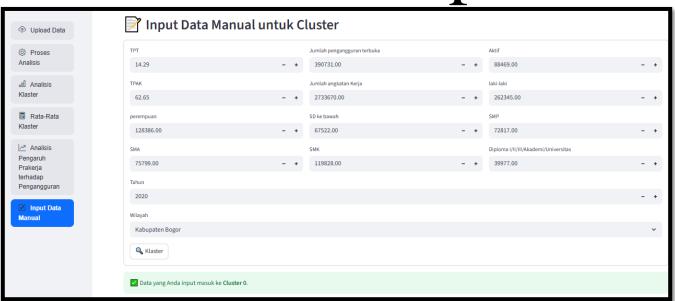




Analysis of Prakerja Program Impact on Unemployment



Manual Data Input



Doload Data

Proses

₀0 Analisis

Rata-Rata

✓ Analisis

Pengangguran

Input Data

Pengaruh Prakerja

Detail Data yang Dimasukkan:

🔄 Tahun: 2020 | 🔵 Wilayah: Kabupaten Bogor Korelasi Antar Fitur

-0.013

· Nilai mendekati 1 atau -1 artinya hubungan kuat. . Nilai mendekati 0 artinya hubungan lemah

SD ke bawah

0.247

0.239

-0.013

0.166

0 14.29

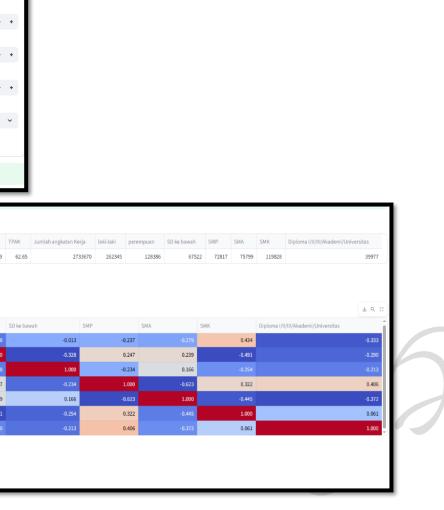
Aktif

SMA

SMK

Penjelasan Korelasi:

SD ke bawa



Data preprocessing, correlation analysis, and Spectral Clustering using Python, Pandas, Scikit-Learn, Streamlit. Three main applicant clusters identified. Insights can help understand patterns in the dataset and inform decisions.

Contact & Links

Email: fathimahfadhilah17@gmail.com

Github: <a href="https://github.com/fathimahfadhilah12/Application-and-Analysis-Correlation-analysis-Correl

Spectral-Clustering

Linkedin: https://www.linkedin.com/in/fathimah-fadhilah-khoirunnisa-547521214/