

# Resume

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# OUTLINE

Introduction

Work Flow

Data

Algorithms

Conclusion



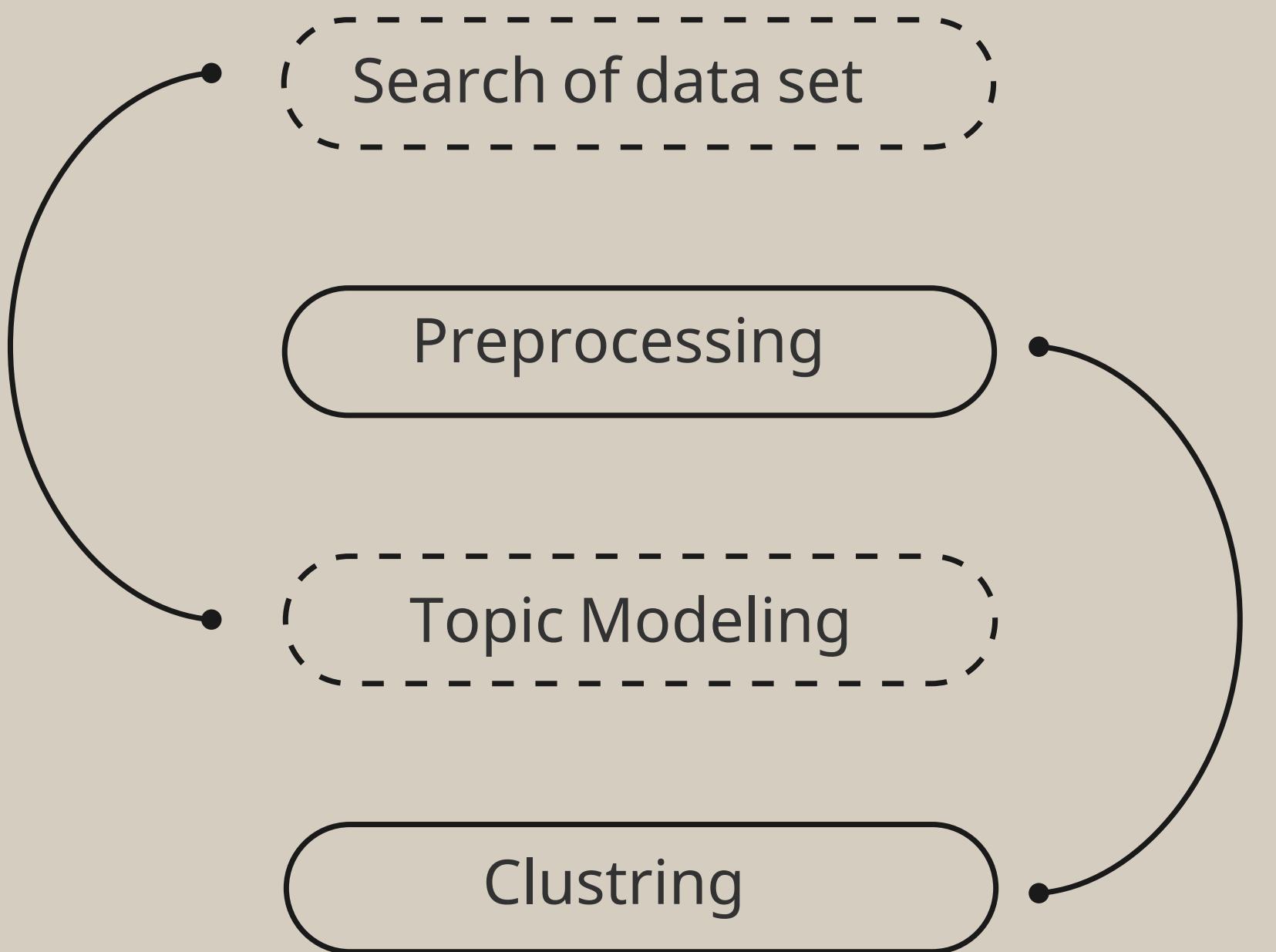
SDAIA T5

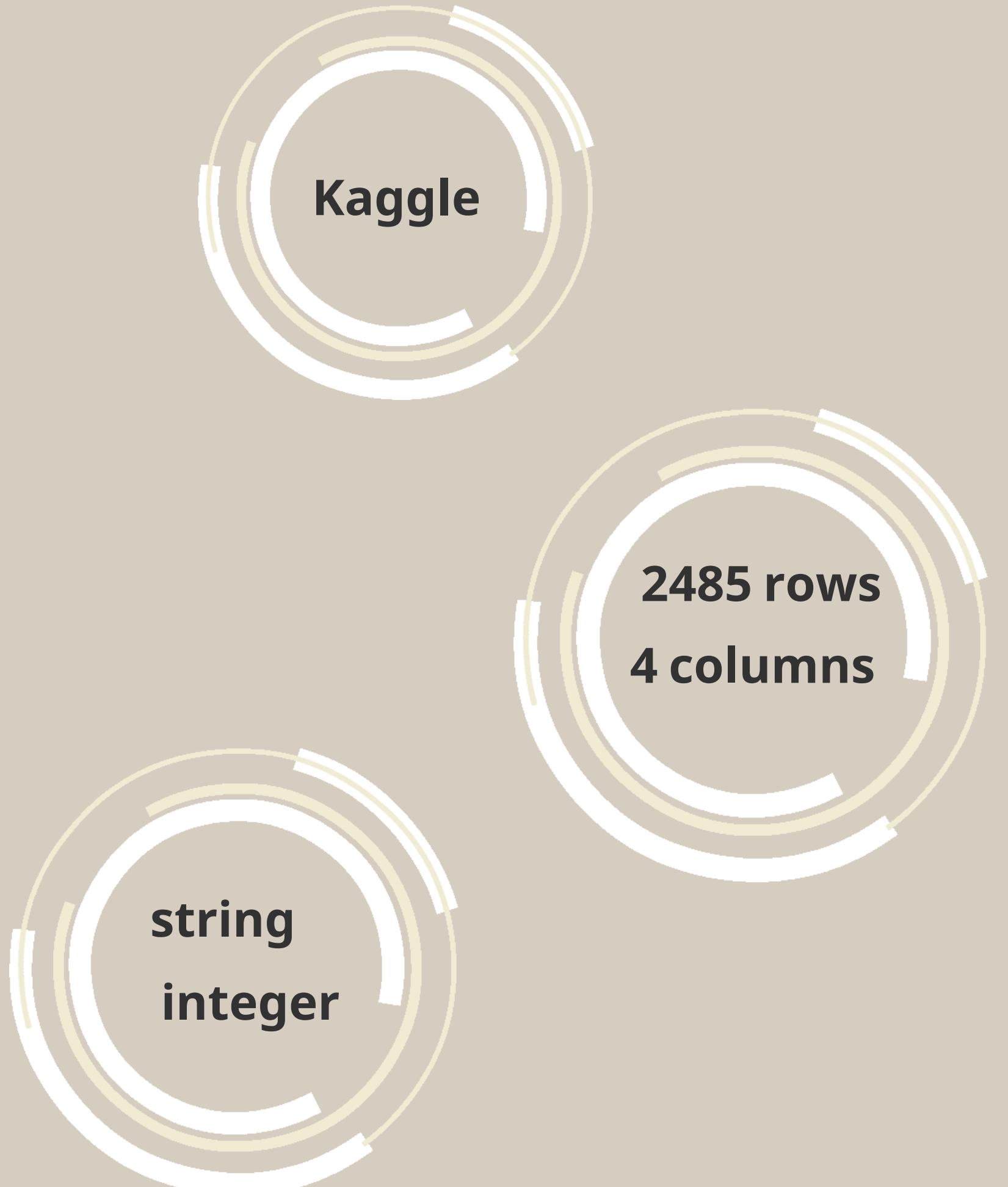
# Introduction

Finding a job is considered one of the major activities for everyone. Typically, large companies do not have enough time to open each CV, so we are help them by use machine learning algorithms for the Resume Screening task .



# Work Flow





**Kaggle**

**2485 rows**  
**4 columns**

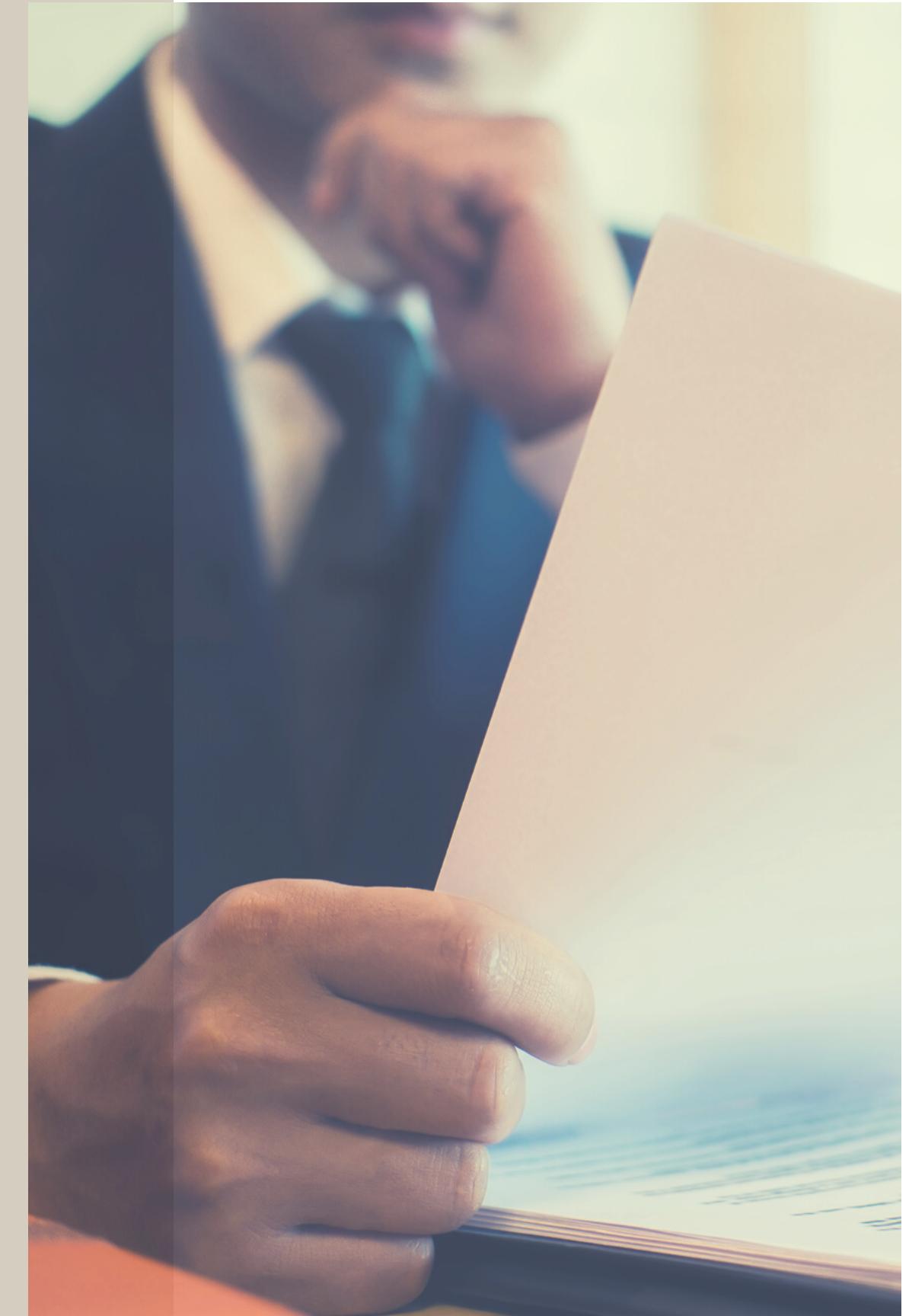
**string**  
**integer**

# **DATA**



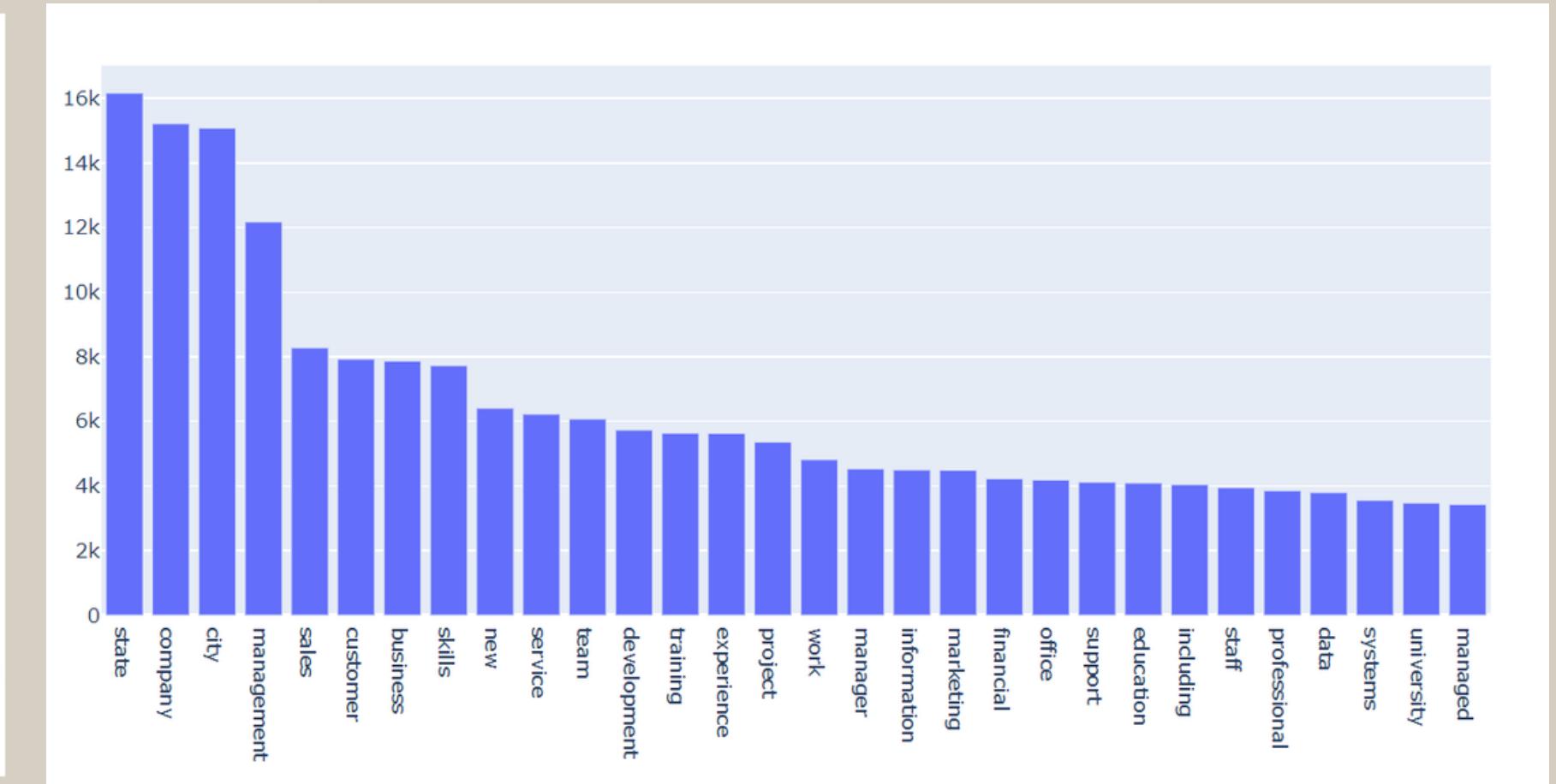
# Data prepossessing

- Tokenize
- lemmatization
- Stemming
- Stopwords
- count vectorizer



# Data prepossessing

# Worldcloud



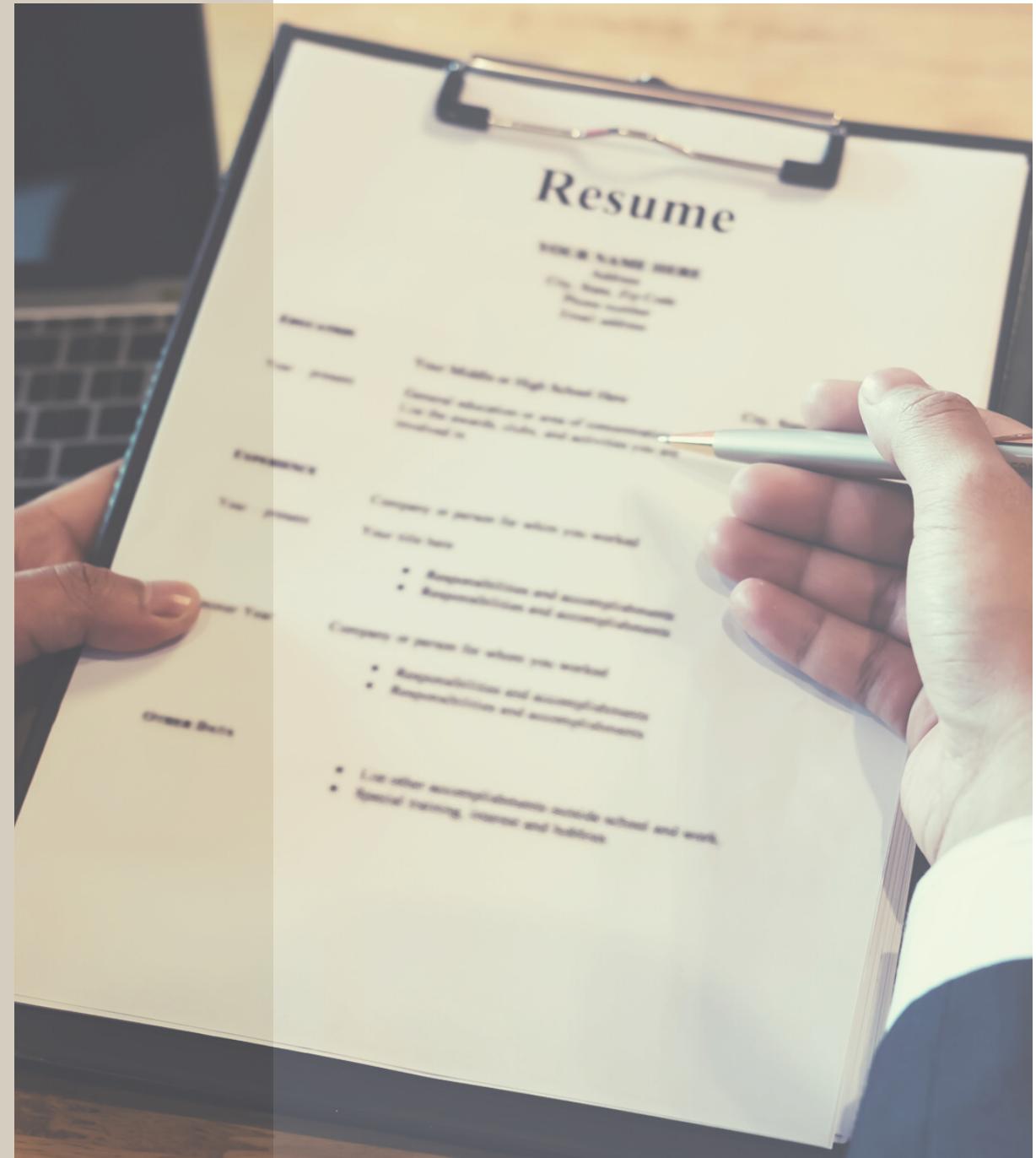
# Algorithms

## Topic Modeling

- NMF
- LDA

## Clustering

- k-Means
- Hierarchical clustering



# LDA Topic Modeling

**Topic 1 - management**

**Topic 2 - sale**

**Topic 3 - financial**

**Topic 4 - customer serves**

**Topic 5 - student**

**Topic 6 - project manger**

**Topic 7 - chef**

**Topic 8 - design**

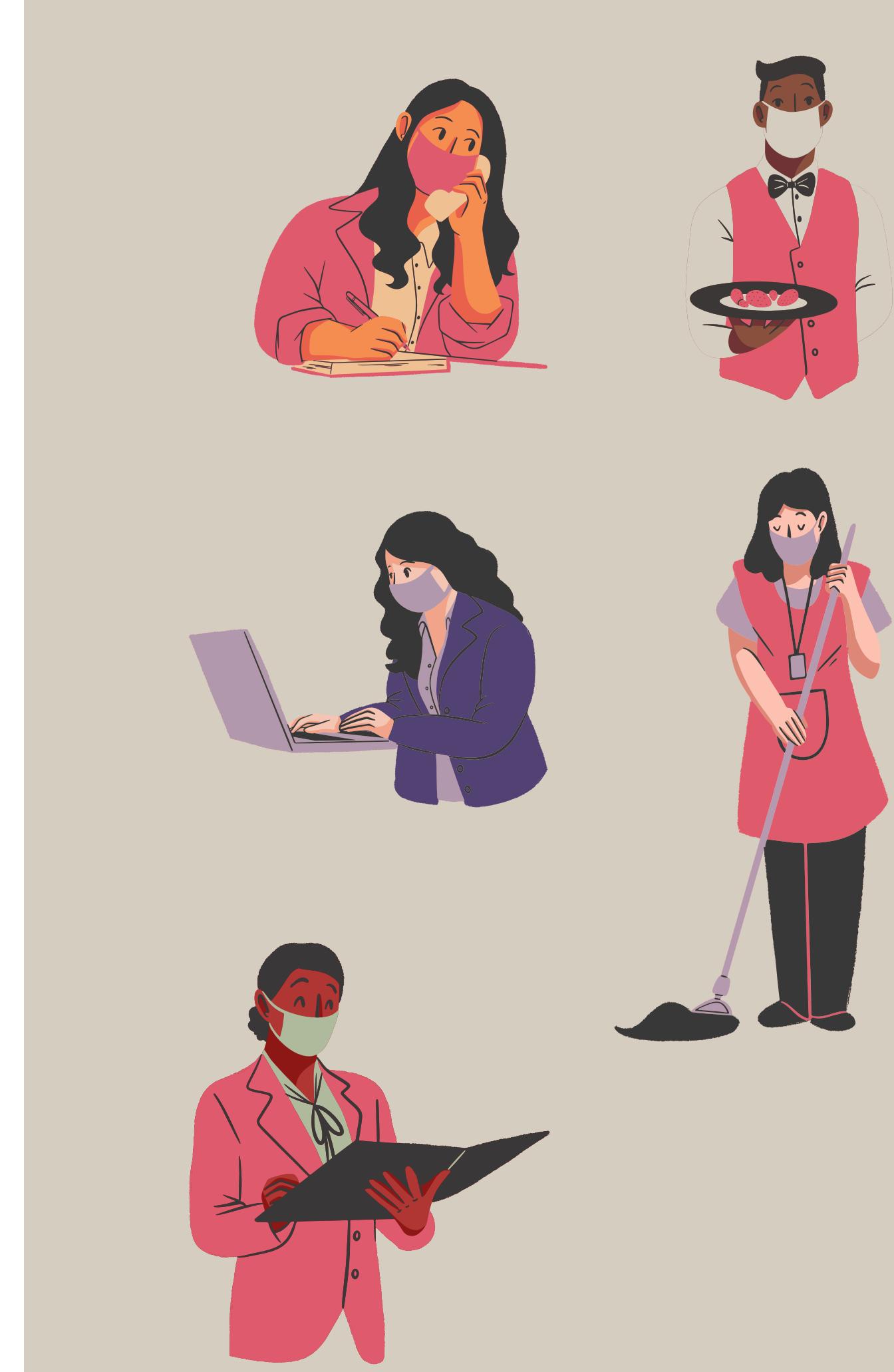
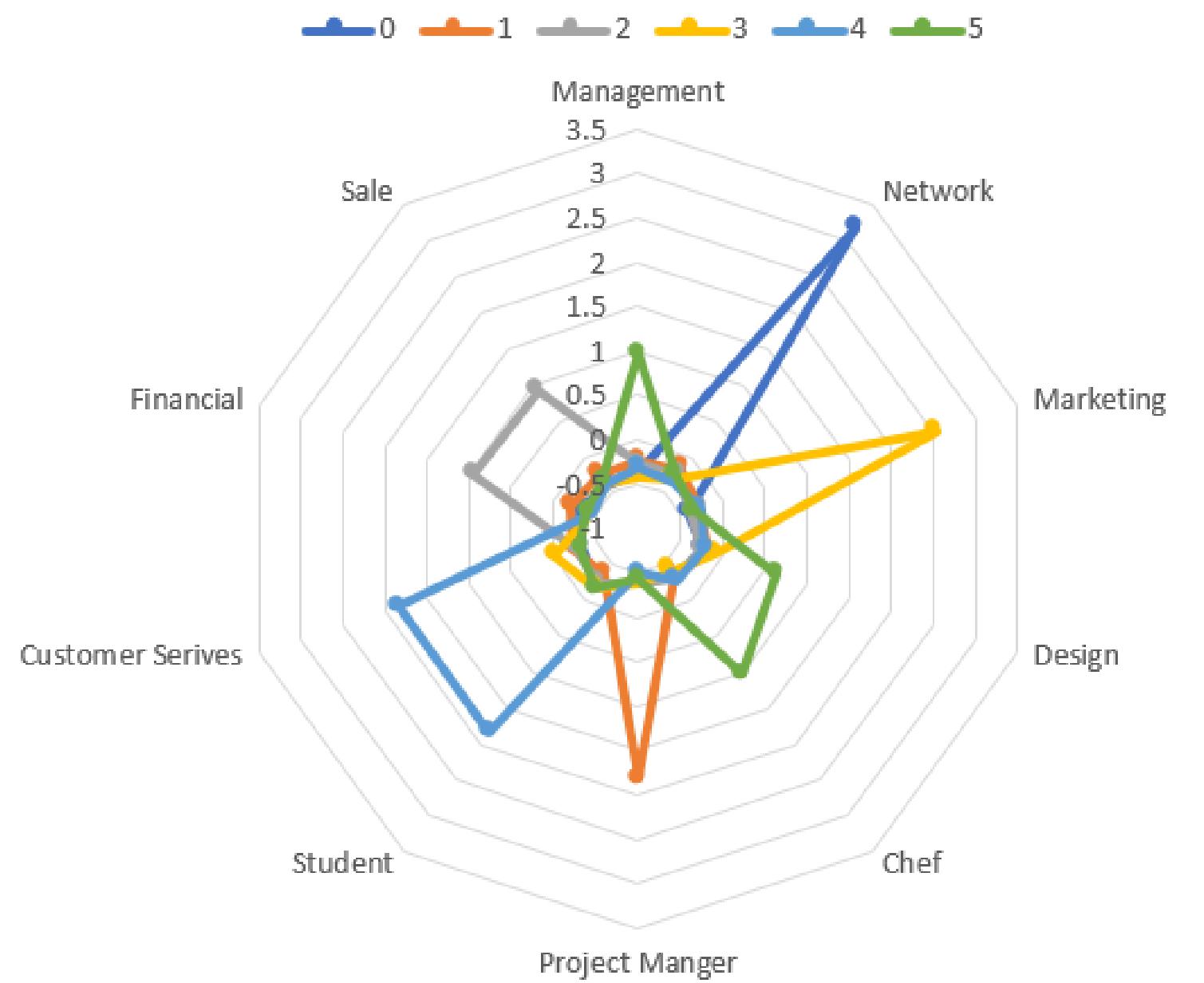
**Topic 9 - marketing**

**Topic 10 - network**



# Clustering

## k-Means

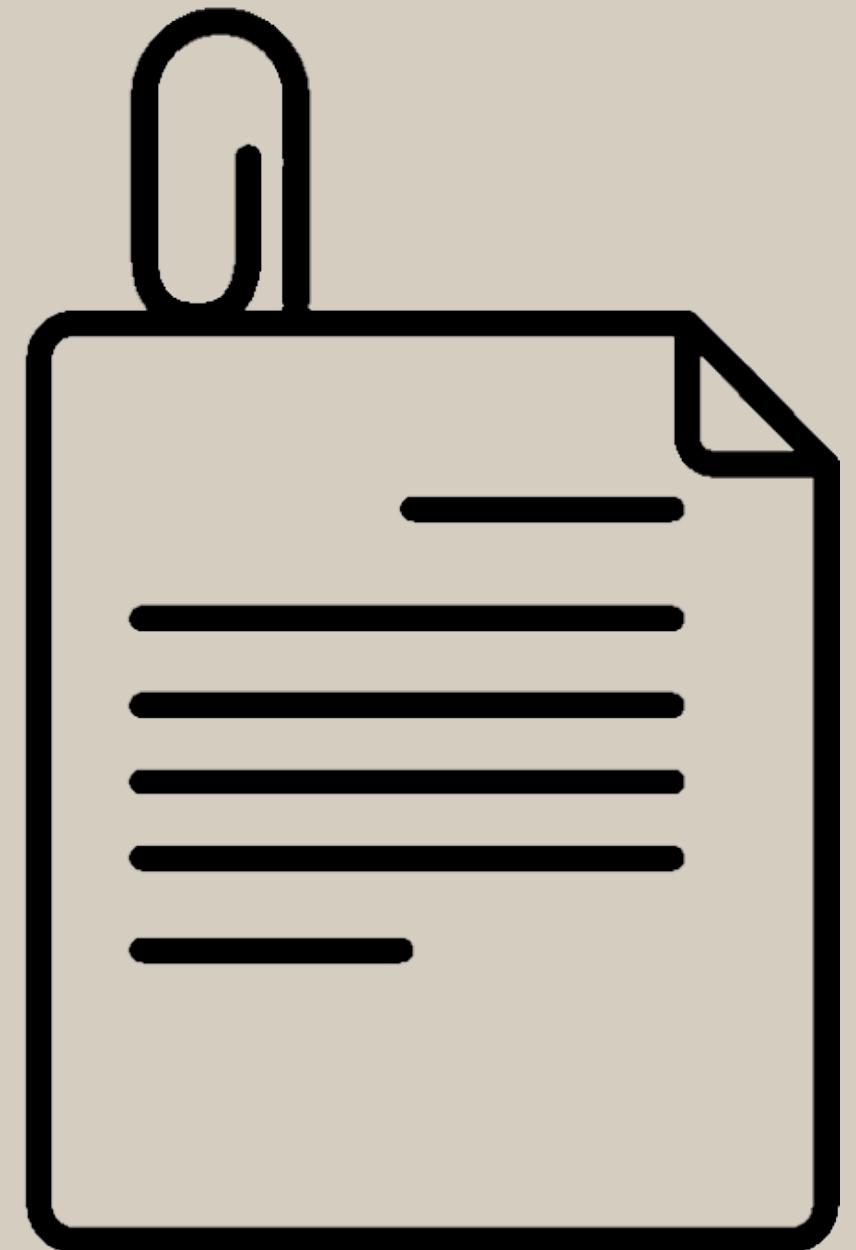


# **Conclusion**

**In the end we achieved the project goal .**

**We made a model that clusters jobs by  
NLP to help HR employees .**

**Now our project ready to apply .**





THANK  
YOU

**Any Questions ?**