DS Job Market Analysis

DATA11001

Introduction to Data Science

University of Helsinki

Introduction

Why we are different from other tools

1. **Tailored for Data Science Students** - Specifically designed to meet the unique needs of data science students at the University of Helsinki.

2. **Localized Recommendations** - Focus on job postings in the Helsinki area, ensuring relevance to students' geographical preferences.

3. **Advanced Matching Algorithms** - Utilizes TF-IDF and Cosine Similarity for precise matching based on skills and project experience.

4. **Continuous Improvement Through Feedback** - Incorporates user feedback to refine recommendations, adapting to the changing job market.

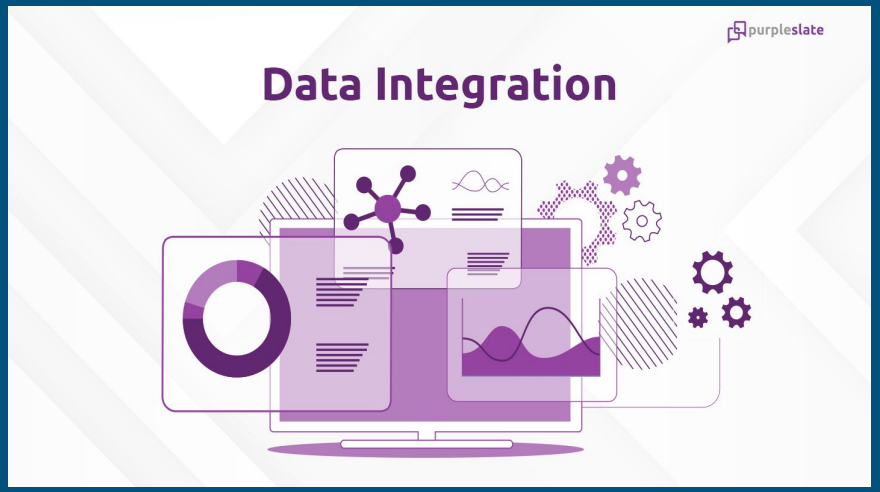
5. **Focus on Job Fit** - Prioritizes matching based on qualifications and interests, improving overall job satisfaction.

6. **Personalized User Experience** - Delivers tailored job suggestions based on individual profiles, including skills and desired work arrangements.

7. **Unique Features** - Offers exclusive tools like skill assessments and mentorship opportunities to enhance the job search experience.

Data Preprocessing

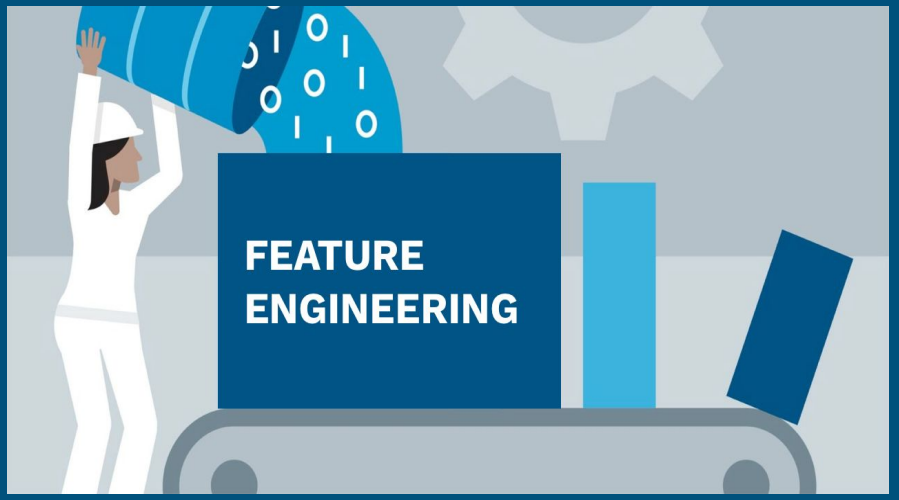
Inbuilt data scraper : APIFY
Platform: LinkedIn
Jobs posted: Aug 12 - Oct 12
Data format: csv files



Combine CSV files
No of records:755

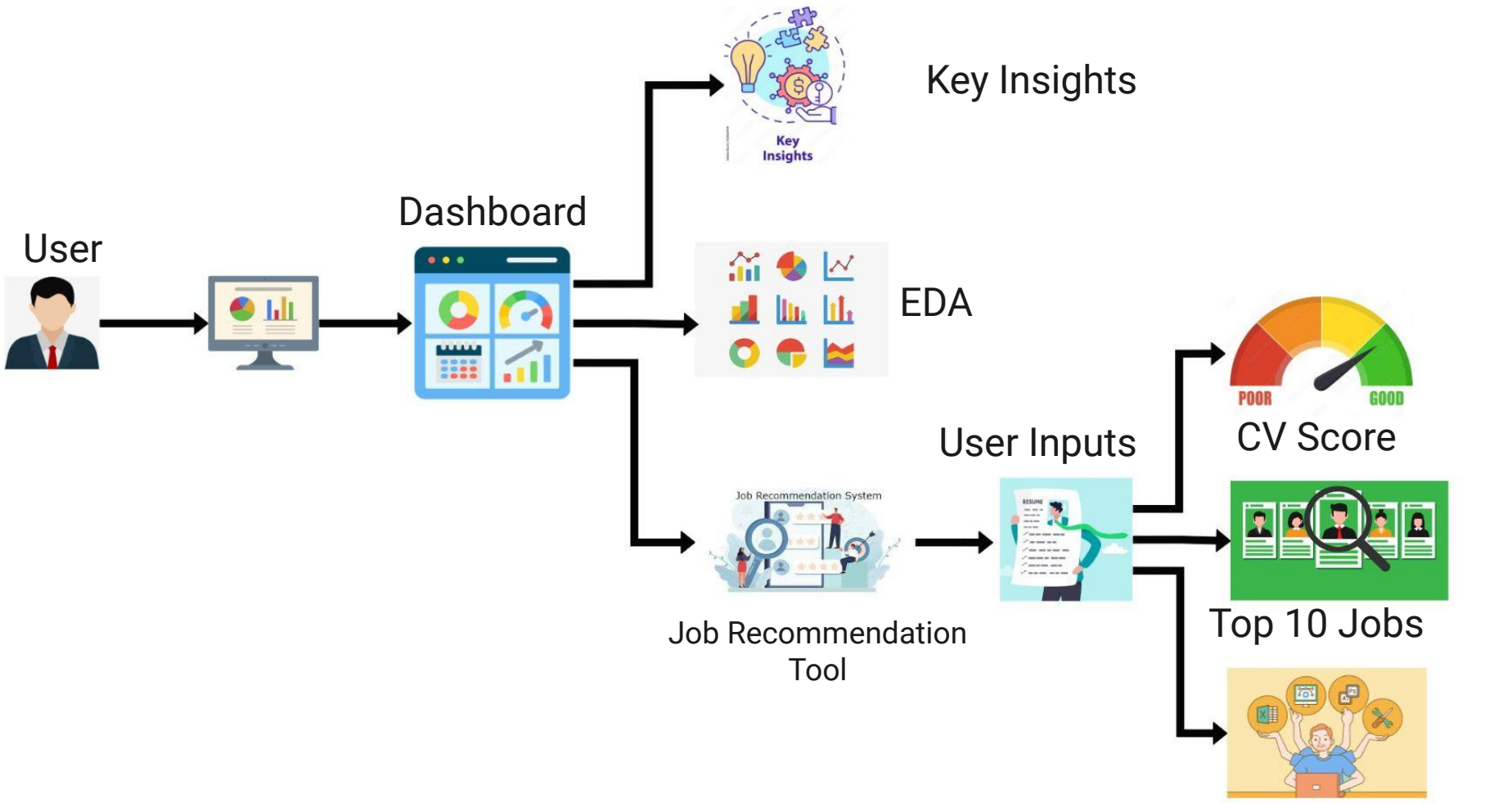
Data Preprocessing cntd.

Remove identical records
Remove records with null values
No of records:561



Language Translation
(Finnish → English)
Create new variables

Dashboard


User
Dashboard
Key Insights
Key Insights
EDA
User Inputs
POOR
GOOD
CV Score
Job Recommendation System
Job Recommendation Tool
Top 10 Jobs
Skill Enhancement Suggestion

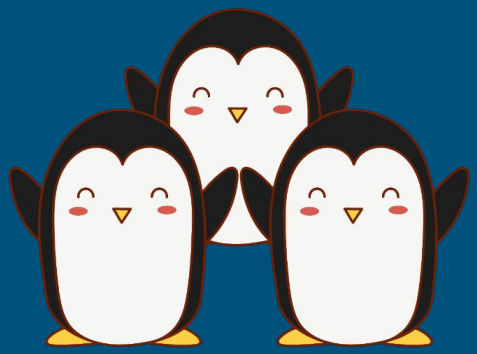
Q & A

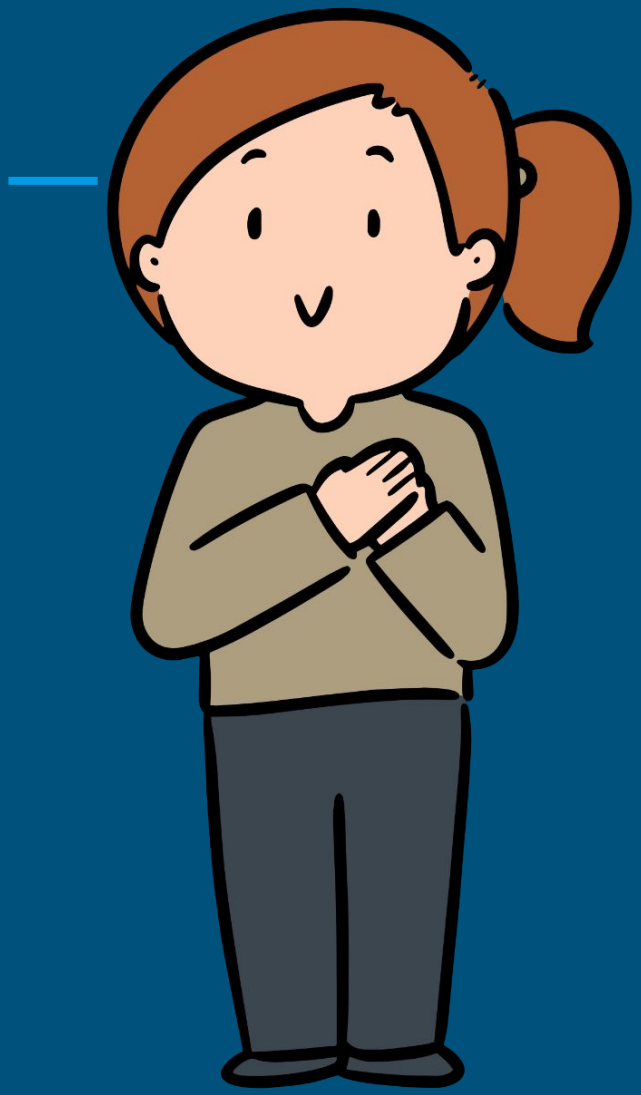
Our Group

Gayathri Senanayake

Dilusha Senarathna

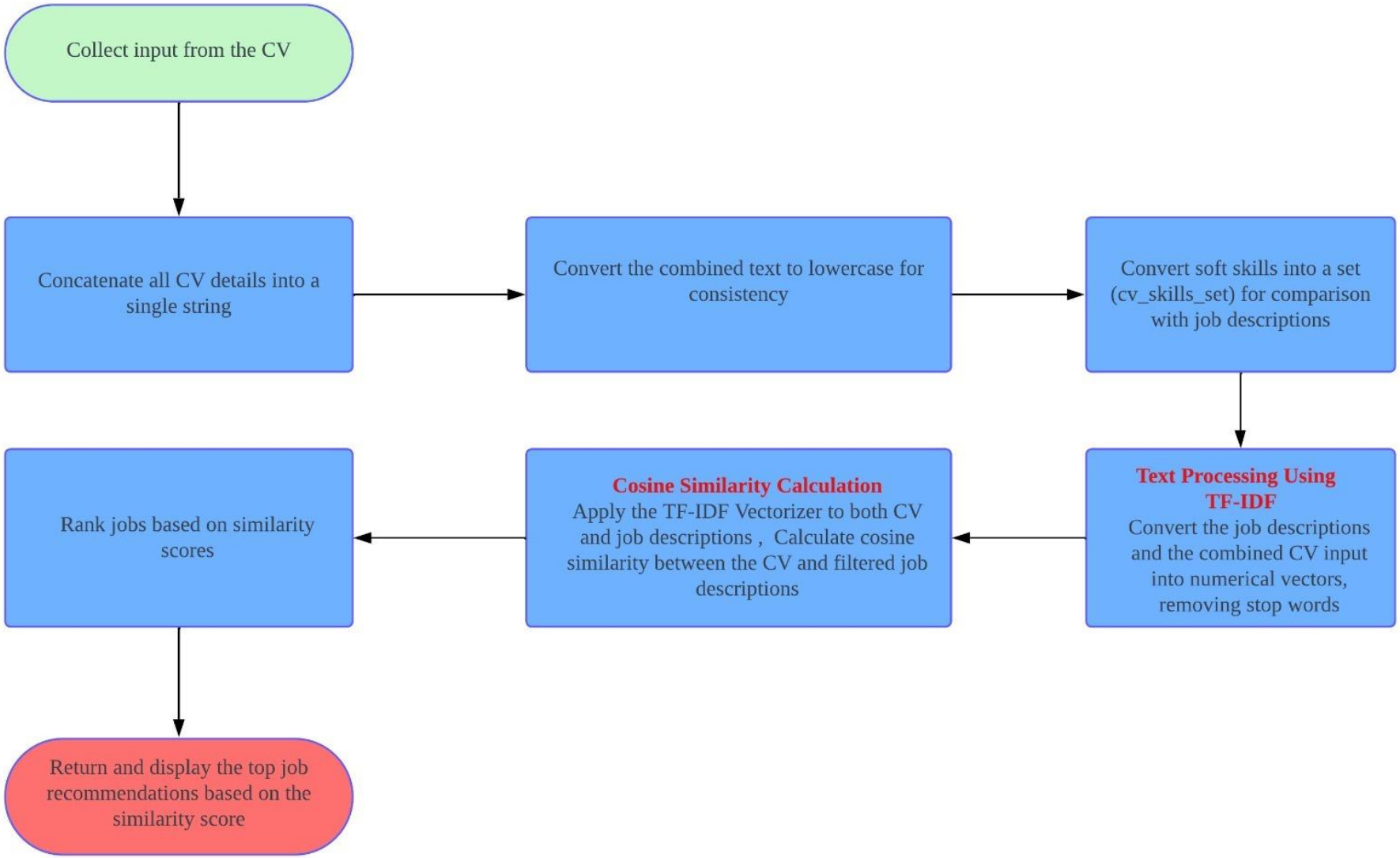
Kavya Atapattu





THANK YOU!

Job Recommendation Process Flow



Feature Engineering

Columns of original dataset: (20 Columns)

applications_Count, applyType, applyUrl, companyId, company_Name, companyUrl, contract_Type, Description, experience_Level, jobUrl, location, posted_Time, posterFullName, posterProfileUr, publishedAt, Salary, Sector, Title, workType, Work_arrangement

New Variables: (37 Columns)

Existing column	**New Variables**
Description	Programming languages, Data Engineering techniques, Database Applications, Soft skills, Cloud computing techniques, Company level
posted_Time	Weeks
Title	Job Title (Engineer, Manager, Programmer)
applications_Count	Intervals