PromotEd

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TEAM 6



MOTIVATION

- Tremendous increase in number of Massive Open Online Courses (MOOCs)
- How does a user find the right course?
- MOOC platforms offer general recommendations and are not focused on a particular job role

Objective: Create a system which recommends a customizable curriculum of courses from multiple MOOC providers based on the skills required for a specific job role

DATA

MOOC DATA

- Udemy, Udacity and edX APIs
- Requires developer affiliate approvals
- Obtained nearly **28000** courses

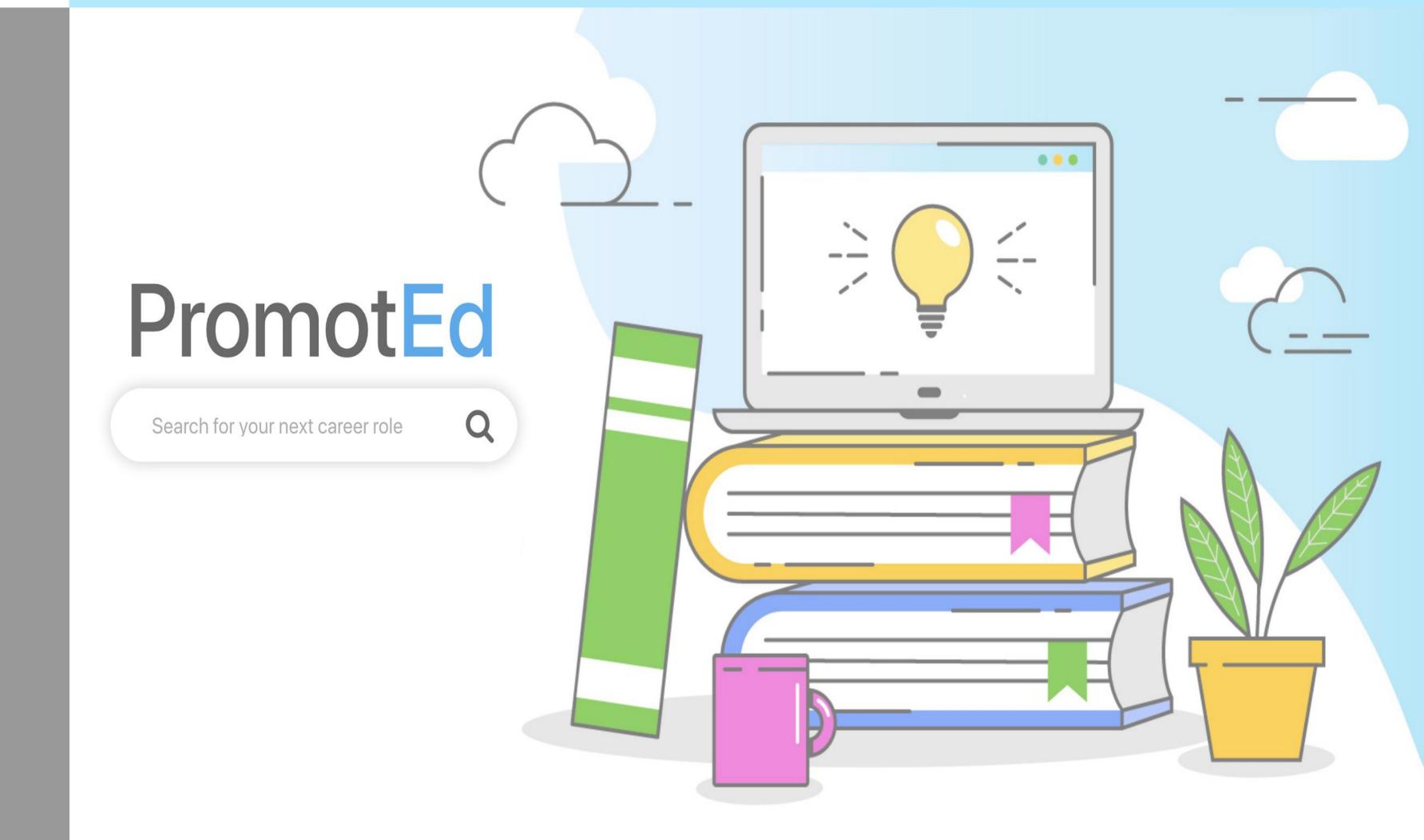
JOB DATA

Kaggle datasets used:

- US-based jobs from Dice.com
- US jobs from Monster.com
- 124 MB of job data used to find role-specific keywords

APPROACH

- MOOC & job data collection using APIs and Kaggle
- Extract keywords corresponding to top skills from job descriptions using count-vectorization
- Use keywords to select relevant courses by using content-based recommendation and filtering courses from the most probable category
- Build interactive platform where users enter the job title and view a course curriculum
- Customize the search result visualization by filtering recommendations according to user constraints such as time commitment and budget



INOVATION

- Aggregates courses from multiple
 MOOC providers
- Job role focused recommendations
- User preference filtering (skill level, cost, time commitment)

NEXT STEPS

- Learning path generation
- Progress/skill tracking
- Refine relevancy of course recommendations

EXPERIMENTS/RESULTS

- User surveys
 - PromotED user testing
 - Compute average user ratings for each category
 - 24 responsescollected
- Consolidate negative and positive feedback to inform future steps

