

Career Path Navigator

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Introduction

Motivation

LinkedIn users struggle to uncover new career paths aligned with their ambitions.

Goal

AI-driven solution designed to guide users through their career in a technology field by recommending new jobs suited for them.

Our Solution

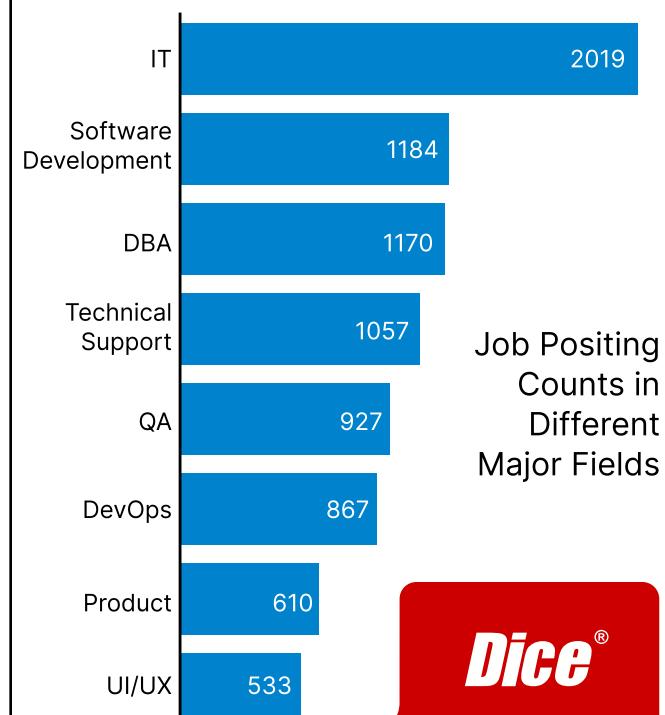
Our solution is to analyze similar profiles, group them, and then suggest diverse yet relevant job opportunities, facilitating broader career exploration and progression.

Data Collection

We have scraped ~10K job postings from dice.com.

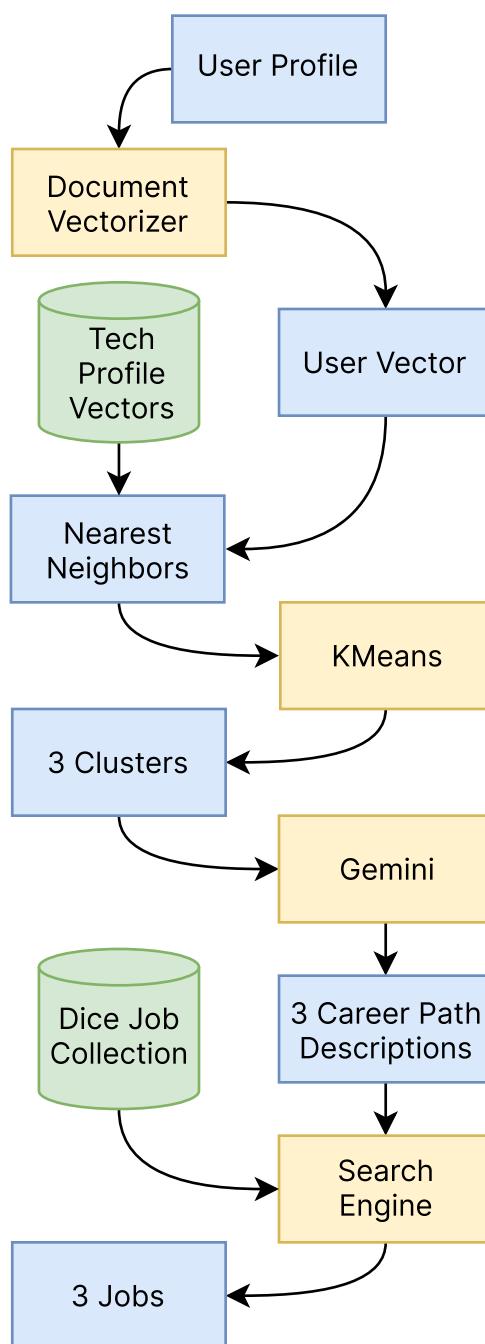
Dice.com is a career website that serves information technology and engineering professionals, offering job postings, and career advice.

The jobs were scraped using Python's requests and BeautifulSoup libraries.



Methodology

The Pipeline



Results

Test Case 1

Venmathi Mark - Senior Hadoop/Big Data Developer at Costco Wholesale. M.Sc in Computer Science.

Career paths of clustered similar profiles:

1. Senior Big Data Engineer

- Keywords: Big Data Analytics, Hadoop Ecosystem, Spark.
- Suggested Job: Lead/Sr Data Cloud Engineer at UST Global.

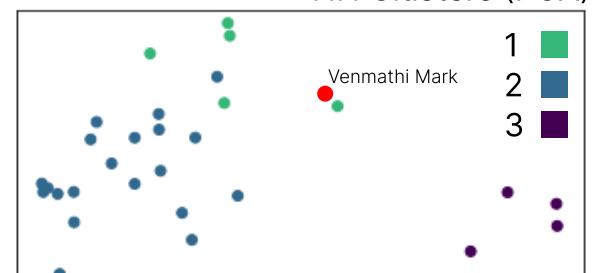
2. Data Engineer

- Keywords: Hadoop, Spark, Hive.
- Suggested Job: Hadoop Developer at Dexian.

3. Senior Software Developer

- Keywords: Cloud Computing, Web Development, Software Engineering.
- Suggested Job: Senior Software Engineer position at General Dynamics Information Technology (GDIT).

NN Clusters (PCA)



Test Case 2

Marge Dady - Results-Driven Product Manager and eCommerce Professional. BS in Business and Marketing, MBA in Business Administration and International Business.

Career paths of clustered similar profiles:

1. Product Manager

- Keywords: Strategy, Marketing, Product Development.
- Suggested Job: Senior Product Owner.

2. Head of Product Management

- Keywords: Product Management, Product Strategy, Market Analysis.
- Suggested Job: Professional Services Sales Senior Director.

3. Global Product Tech Support

- Keywords: Product Management, Global Support, Technical Support.
- Suggested Job: Global Product Operations.

Profile Vectorizer

