Personality Matcher

A human-to-human recommendation system

Motivation

- Dating
- Mentor-mentee matching
- Roommate selection
- Team formation
- ...and countless more use cases...

*Building a **dynamic** recommender that takes in **real-time user input** and matches you with profiles of compatible personalities.*

Live Demo

Register

Username

Password

Repeat Password

Sign In

Username

Password

Sign in

New User? Click to Register!

Hi, anonymous user 33!

Matches:

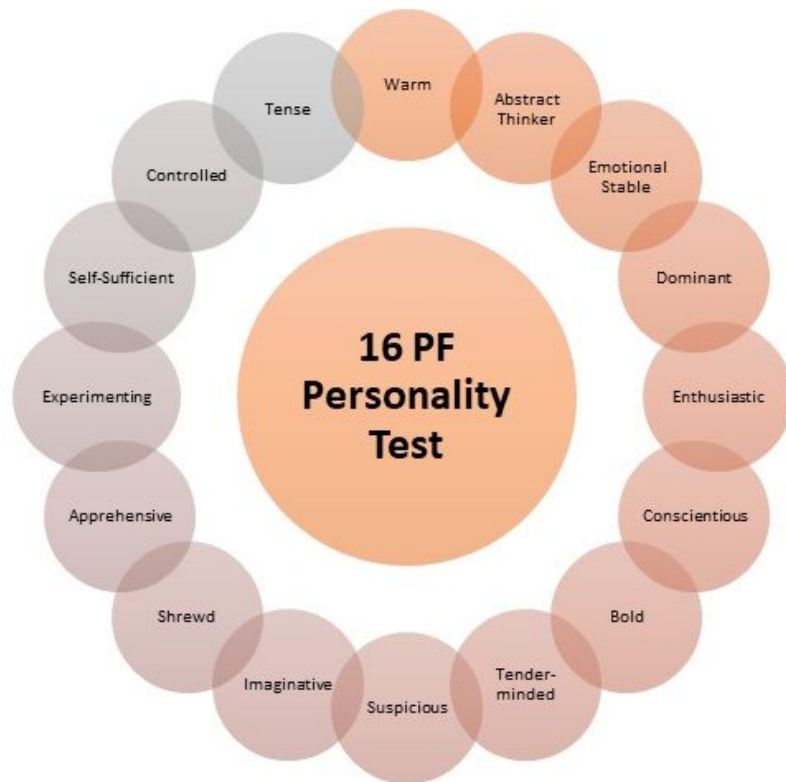**Username:** anonymous user 60
Age: 49.0
Gender: Male

Username: anonymous user 46
Age: 45.0
Gender: Female

Data

- **50,000** rows of anonymized user data from openpsychometrics.org

- **169** columns consisting of:
  - Answers to **163** personality survey questions
  - Answers to **6** Demographics questions

Models

- Offline feature generation
  - Factor analysis
  - Cluster analysis

- Online "nearest neighbor" query
  - Cosine similarity

What constitutes success?

- *Eigenvectors capturing 95% of the variations in the data*
- *Positive real-time user feedback (engagement rate, etc.)*

Interesting Insights

- Anonymous users 93 and 50 are most 'popular' among users who don't provide much survey data.

- More interesting insights to come with more user data – *try it yourself until the end of the grading period!*

Thank you!

And shoutout to an awesome QA who willingly uploaded a real profile picture!

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