



CAREER E-SANDBOX

NEED CAREER CLARITY? EXPLORE THE POSSIBILITIES

What is Career E-Sandbox?

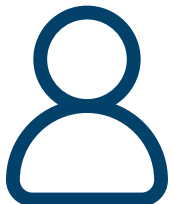
Career E-Sandbox takes results from popular personality tests and gives users visibility into career paths for their profile.



The Problem

CAREER MISALIGNMENTS DUE TO PERSONALITY

- Many post-secondary students face uncertainty regarding their current career or program trajectory.
- This often stems from misalignments related to personality or preferences.

 **50-70%** of students, switch majors at least once.^[1]

 **25%** of graduates, would select a different program.^[2]



CURRENT CAREER SEARCH TOOLS DO NOT:

- Consider a variety of personality assessments or preferences.
- Explain why a career path does or does not fit a person.

Effect on Students

FOLLOWING THE WRONG PATH CAN LEAD TO STUDENTS:



Wasting Time



Draining Money



**Susceptible to
burnout**



**Having bad
mental health**



**Graduating
without a clear
direction**

OTHER RELATED EFFECTS:

- Students also report that career exploration is a stressful experience.
- While a student may not necessarily hate their current path, they can still feel uncommitted or unmotivated.



Our Solution

CAREER E-SANDBOX

- Career E-Sandbox is a web application that guides students by considering their personality and preferences.
- Unlike other platforms, it uses multiple popular personality tests to build a user's profile and enables interactive exploration.
- To deliver career suggestions, it utilizes Large Language Models (LLMs) to process the user's identity and preferences.

PERSONALITY TESTS

- Astrology
- Big Five Model
- Chinese Zodiac
- Clifton Strengths
- DiSC Assessment
- Enneagram
- Myers-Briggs Type Indicator
- Sparketype Test

Our Approach

DESIGNED WITH A SANDBOX PHILOSOPHY

- Give users creative flexibility and interactivity.
- Allow the interface to give users a personalized touch based on their identities.
- Integrate friction with a variety of personality types and preferences.

BUILDING STRUCTURE

- Make it easy for anyone to build their own Career E-Sandbox.
- Operate on a minimal budget.

FRIENDLY DESIGN

- Alleviate the stress related to career exploration.
- Ensure the interface is user-friendly.



How it Works

Input Results

Students enter their results from personality tests they've taken, along with their dislikes and preferences.

1

2

Explore the Sandbox

Users can tweak their inputs to explore and see different career results.

Discover Matches

Each search will show a ranked list of careers and explain why a career does or does not fit the user.

3

Results

MATCH PERCENTAGE

Careers are ranked from strongest to weakest fit.

MARKET DATA

Every career shows the salary range, job growth outlook, and education level.

PROS & CONS

Lists where a suggestion hits the mark and where it does not.

BEST & WORST FIT

Explains both the careers to pursue and the ones to avoid.

User Benefits

- 1 Improve student outcomes
- 2 Mitigate mental health problems and lower chance of burnout
- 3 Reduce career mismatch and program switches
- 4 Enhance existing career advising systems
- 5 Improve long-term workforce alignment
- 6 Promote critical thinking and AI literacy

How it Looks

The screenshot shows a 'Personality Assessment' interface. It has two tabs: 'ASSESSMENTS' (active) and 'PREFERENCE'. Under 'ASSESSMENTS', there are several options: Astrology, Big Five Model, Chinese Zodiac, CliftonStrengths, DISC Assessment, Enneagram, and Myers-Briggs (MBTI). Each option has a dropdown arrow and a question mark icon. Below these is a 'TYPE DESIGNATION' section with a dropdown menu showing 'ENTP (Debater)'. At the bottom, there is a 'VARIANT MODIFIER (OPTIONAL)' field. A red arrow points from the 'Generate' button area to the 'MODEL' dropdown menu, which is currently set to 'Gemini'.

The screenshot shows the 'PREFERENCE' section of the interface. It contains three main options: 'Task Dislikes (Aversions)' (unchecked), 'Age Range' (checked), and 'Gender' (checked). The 'Age Range' dropdown is set to '18-24' and the 'Gender' dropdown is set to 'Man'. The 'Task Dislikes' section has a description: 'Multi-select: check all task types you want to avoid.'.

See whether career recommendations change based on demographic characteristics.

OTHER FEATURES:

- Switch between different AI models to get better results.
- Users can save their searches and profile into a database.

How it Looks Continued

TECHNOLOGY

Data Scientist / Systems Architect

↗ High Growth (18% YoY)

💰 \$\$\$\$ \$110k – \$180k

🎓 MS / PhD Preferred ABOVE ANCHOR

Data Scientists and Systems Architects design and build the analytical infrastructure that powers modern organisations. The role requires deep technical expertise, systems thinking, and the ability to translate complex findings into actionable insights.

This career aligns with your profile because analytical systems thinking maps perfectly to ML pipeline and data architecture roles, which fits your strengths well. That said, senior roles increasingly demand team leadership and stakeholder communication.

🛡️ PROS

- Direct application of deep analytical and systems thinking
- Strong remote-first culture across the field
- Exceptional long-term salary trajectory
- High demand across virtually every sector

⊕ CONS

- Requires continuous learning of rapidly evolving tools
- Senior roles demand team leadership and communication

📊 Myers-Briggs (MBTI) Fit Rankings

All types

Q1: Top Quartile Q2: 2nd Quartile Q3: 3rd Quartile Q4: Bottom Quartile

1 INTJ Top Quartile 97%

Systems thinker with strong independent drive — ideal for ML architecture.

2 INTP Top Quartile 94%

Theoretical precision and curiosity underpin strong data modelling instincts.

⚡ Sparketype Fit Rankings

All types

Q1: Top Quartile Q2: 2nd Quartile Q3: 3rd Quartile Q4: Bottom Quartile

1 Maven Top Quartile 98%

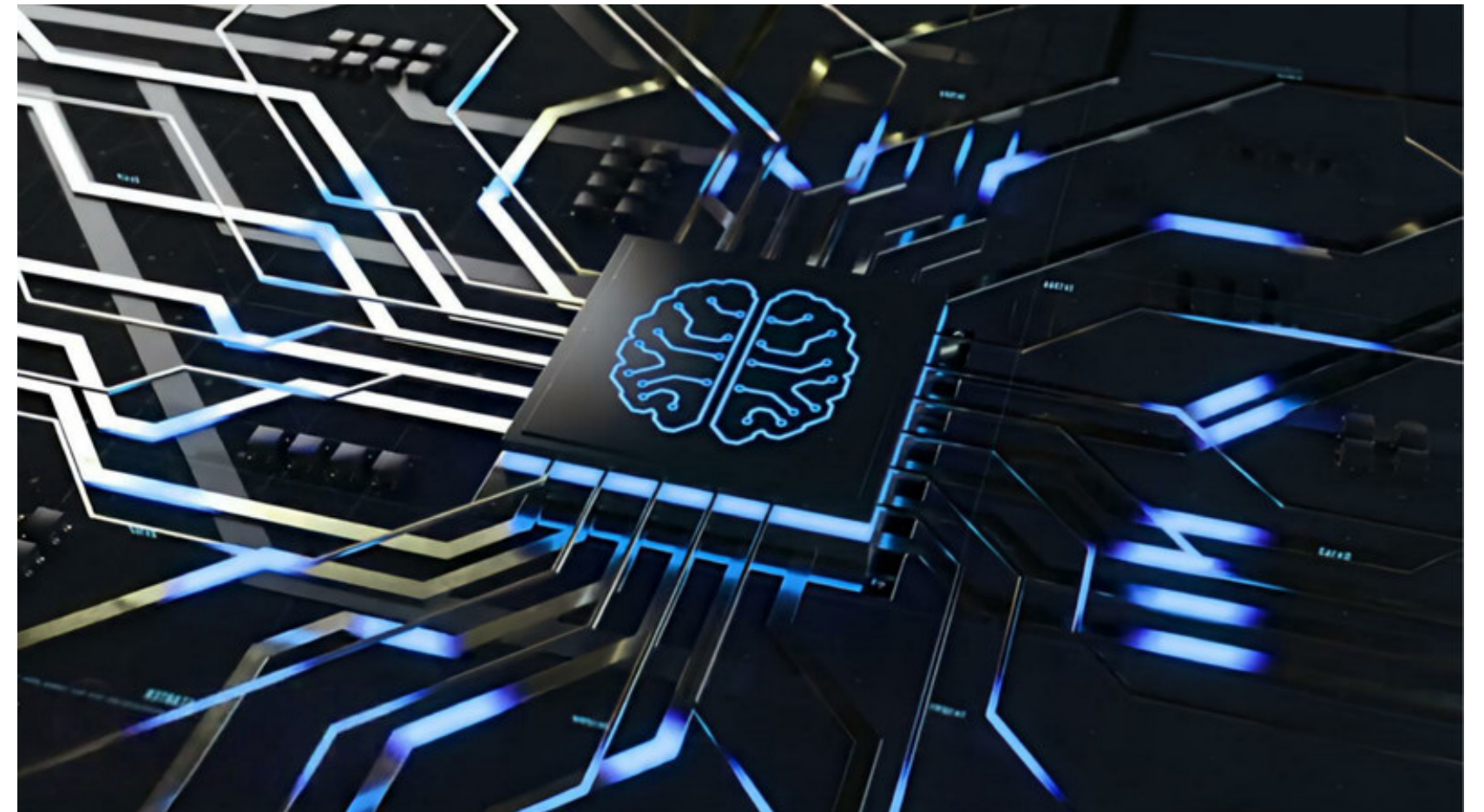
Driven to acquire and master knowledge — perfectly aligned with research depth.

- View the top personality types by quartiles for a specific job.
- For example, for the job above (Data Scientist/Systems Architect), the INTJ Myers-Briggs type and Maven Sparketype are the top profiles.

Relevancy

ARTIFICIAL INTELLIGENCE

- With the rapid acceleration of Artificial Intelligence (AI), the importance of career exploration tools has risen.
- The disruption caused by AI has increased job uncertainty.
- It has also reduced students' trust in long-term career or academic programs.
- All in all, AI has made career guidance more needed than ever.



The Future

CURRENT PLANS

1

Continue developing and testing the application to improve its features.

2

Seek institutional partners and explore integrations with existing organizations.

3

Further development with work-integrated learning or pilot programs.

OTHER CONSIDERATIONS

- Incorporation of a user's previous/current academic and professional experience.
- Integrate institutions, programs, or locations where users can go or transfer.
- Evaluate classes that users liked or disliked.
- Consider current available jobs or foresight into future possible jobs.

Thank you



OUR CONTACTS

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REFERENCES

- [1] University of Toronto Mississauga Career Centre. (n.d.). Choosing your program. Retrieved from: <https://www.utm.utoronto.ca/careers/career-planning/career-planning-year/choosing-your-program>
- [2] BC Student Outcomes Program. (2024). The 2024 highlights. Retrieved from: <https://outcomes.bcstats.gov.bc.ca/app/uploads/sites/873/2025/06/The-2024-Highlights.pdf>