

Haya Tariq

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Github link | hayatariq.com

Cognitive Science graduate student with applied experience building and evaluating classification, regression, and clustering models using Python and TensorFlow. I am interested in responsible, human-centered applications of machine learning, with an emphasis on evaluation and interpretability.

EDUCATION

University of Toronto

Honours Bachelor of Science, Cognitive Science

Toronto, ON

Sep 2020 – June 2026

- Minors: Computer Science, Digital Humanities

MAJOR PROJECTS

- Employee Absenteeism Prediction Models (*ML, Python, TensorFlow*)
- Credit Buddy Management App (*UX Design, Figma*)
- TTC Subway Delays Analysis (*Data Analysis, SQL*)
- UFO Sightings Interactive Visualization (*D3.js, HTML/CSS*)
- Isabella Stewart Gardner Museum Heist (*Digital Humanities, Omeka Neatline*)

EXPERIENCE

UX Design Study Abroad Program

Designing Systems for Real World Problems

Berlin, Germany

Jul 2024 - Aug 2024

- Collaborated in a 5-person team to design a user-centered solution, progressing from problem definition to high-fidelity prototype in an intensive international studio environment.
- Conducted literature review and primary user research (interviews/usability testing) to define requirements and personas.
- Designed and iterated low- and high-fidelity prototypes in Figma based on usability findings.
- Presented final design and documentation to instructors and peers, synthesizing research insights into actionable design decisions.

H5P Digital Textbook Volunteer

University of Toronto Libraries

Toronto, ON

Jan 2025 – Apr 2025

- Designed interactive H5P learning activities (quizzes, drag-and-drop exercises, timelines) for a digital Italian food studies textbook.
- Applied instructional design principles to improve student engagement and comprehension.
- Reviewed and edited content for clarity, accuracy, and usability within an academic library context.

Research Assistant

Department of Near and Middle Eastern Civilizations

University of Toronto

Toronto, ON

Oct 2024 - Apr 2025

- Supported faculty research using the KITAB digital corpus to analyze textual reuse in classical Arabic literature.
- Learned and applied a new digital humanities tool for large-scale textual analysis and comparison.
- Produced regular analytical reports contributing to research on intellectual transmission in early Islamic history.

CERTIFICATES

- UofT SCS Data Science
- UofT SCS Artificial Intelligence

SKILLS

DESIGN & VISUALIZATION

- Figma
- Tableau
- Omeka Neatline

PROGRAMMING & DATA

- Python
- SQL
- Javascript
- HTML/CSS
- Tensorflow

RESEARCH & ANALYSIS

- User Research
- Usability Testing
- Exploratory Data Analysis

FLUENT LANGUAGES

- English
- Arabic

INTERESTS

- Textile arts (cross-stitch, crochet)
- Painting
- Swimming