Owen Chambers

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Education

University of Waterloo — Waterloo, Ontario, Canada
MMath in Computer Science - 3.7/4 — 2021–2023

- Thesis: User-specific explanations of AI systems attuned to psychological profiles: a user study.

Brandon University — Brandon, Manitoba, Canada
Honors B.Sc Computer Science - 3.83/4.3 — 2016–2021

Experience

Machine Learning Contractor
Invisible Technologies — April 2024–Present

- Collaborating with a leading AI research organization known for developing the most popular AI model of 2023.
- Fine-tuning next-generation AI models for autonomous web navigation and file management, significantly enhancing the efficiency and accuracy of automated tasks.

Software Developer Intern
Technology Solve — Oct 2020–Jan 2021

- Engineered an efficient and robust **inventory tracking application** to optimize item storage and retrieval.
- Updated websites and **increased SEO** for businesses with **100+** employees.

Software Developer in Test
Heartland Software Solutions — Feb 2019–July 2019

- Meticulously followed instructions to re-create and identify bugs across diverse operating systems.
- Spearheaded communication across time zones to ensure efficient task completion as scheduled.

Projects

User-specific Explanations of AI Systems
University of Waterloo Thesis

- **Developed a predictive AI model** for the acceptance/rejection of **AI explanations**, yielding **statistically significant** results over the performance benchmarks set by current best practices.
- Applied **Linear Regression, Logistic Regression, and Random Forest AI models** to gain further insight, which predicted whether a participant would accept a given explanation with **95% accuracy.**

Predicting Off-target CRISPR Mutations
Deep-Learning for Biotechnology Course Project

- Developed a **Siamese Neural Network** to predict off-target CRISPR mutations achieving **98% accuracy**.
- Clearly illustrated that investigating the gRNA and DNA strands separately is a valid method of prediction

Skills

- **Language Familiarity:** Python, Java, JavaScript, SQL, HTML, CSS, Scripting
- **Technologies:** Scikit-learn, PyTorch, Tensorflow, Keras, Numpy, Flask, Pandas, Git