Mirza Ahmadi

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EDUCATION

University of Guelph Jan 2024 - Present
Master of Science – Bioinformatics and Artificial Intelligence *Guelph, ON*
- Developing a machine learning pipeline to extract and present genomic sequence data
- Relevant Skills: Machine Learning, Python, Bioinformatics, Genomics, Unix

Honours Bachelor of Science – Major in Zoology, Minor in French Studies (GPA: 3.7) Sep 2019 – Oct 2023
- Completed a one-semester exchange program at Aberystwyth University, Wales

EXPERIENCE

Researcher May 2022 - Present
University of Guelph *Guelph, ON*
- Designed and executed an independent research report on snake venom evolution, producing a 30+ page report
- Conducted literature review & analyzed data from multiple phylogenies to investigate venom evolution mechanisms
- Collaborated with experts in bioinformatics, biochemistry, and genomic biology, enhancing scope of research
- Acquired skills in R, MS Excel, and Mesquite to create correlational and graphical analyses, and phylogenies
- Currently working towards publication in a peer-reviewed scientific journal

Globalink Mentor April 2022 – Nov 2022
University of Guelph *Guelph, ON*
- Developed info packages on government regulations and Canadian banking for seven international research interns
- Led coordination of social events to foster intern networking and community-building
- Provided ongoing logistical support, addressing individual needs, and resolving issues promptly

Data Entry Clerk May 2021 – Jan 2022
MSH International *Toronto, ON*
- Performed quantitative analysis using MS Office to generate client reports
- Managed administrative duties including communicating with clients and providers via email

PROGRAMMING PROJECTS

[**Venom Type Classifier**](Venom Type Classifier)| [**Video Demo**](Video Demo) | ***Python*** March 2024
- Developed a classifier to predict venom types in snake species based solely on venom protein proportions
- Utilized 'scikit-learn', 'matplotlib' and 'pandas' to build a support vector machine classifier and visualize PCA data

[**Shopping Intent Predictor**](Shopping Intent Predictor) | ***Python*** March 2024
- Created a classifier to predict online shoppers' purchasing intent using website data from 12,000 user sessions
- Leveraged the Python library 'scikit-learn' to create a k-nearest-neighbor supervised learning classifier

[**SciRef**](SciRef) | [**Video Demo**](Video Demo) | ***Python , Tailwind CSS, React, Flask*** Aug 2024
- Constructed a website which generates customized scientific references for PubMed journal articles
- Enables users to input URLs and order reference components to obtain accurately formatted references

CERTIFICATIONS

[**E-learning Course: Data Structures**](E-learning Course: Data Structures)	Oct 2023
[**LinkedIn Learning certificate: Python Essential Training**](LinkedIn Learning certificate: Python Essential Training)	June 2023
[**Harvard CS50 Introduction to Programming with Python**](Harvard CS50 Introduction to Programming with Python)	Jan 2023
DELF (Diploma in French Language Studies) B2	Feb 2019

TECHNICAL SKILLS

Python (Advanced)
R (Advanced)
MS Office (Advanced)
HTML (Intermediate)
CSS (Intermediate)