Nima (Ross) Sarajpoor

Github: https://github.com/NimaSarajpoor Website: https://nimasarajpoor.github.io/blog/ Alberta, Canada nimasarajpoor@gmail.com +1 (587) 284 8089

Highlights (hyperlinks included)

• Machine Learning

- Experienced with several libraries in Python including TensorFlow, Scikit-learn, Numpy, Pandas, and Numba.
- Experienced with supervised and unsupervised machine learning models (see IEEE
 Journal in which a dependent elastic distance is used to preserve shape of patterns in multidimensional time series data)
- Added two new features to the machine learning library mlxtend to enhance feature selection module, particularly for categorical data (see mlxtend PR#957)
- Implemented arbitrary-length anomaly detection algorithm while reducing its computing time by providing a warm start (see MERLIN PR#505)
- [WIP] Adding a major feature to STUMPY library to support top-k neighbors in matrix profile algorithm, which can speed up the computation for the discovery of motifs with different lengths (see PR#595 and PR#586)
- Created tutorials in machine learning (see POSTS)
- Familiar with **TensorFlow** for constructing deep learning models.

• Programming

- Proficient in Python, led lectures for a crash course on python with more than 50 participants
- Familiar with data structure and algorithms, ranked 5^{th} in Programming Contest (CCPC).
- Experienced with **refactoring** (see PR#656) and **unit testing** (see PR#657)
- Experienced with version control **Git**

• Math

- Strong quantitative reasoning, verified an equation after fixing the typo (see the long proof here: VALMOD notebook)
- GPA 4.0/4.0 on university-level courses on mathematics
- Took advanced courses: "data mining [algorithms]", "applied data science", "probability and stochastic process", and "computational statistics." (GPA: 3.85)

Education

University of Calgary

Alberta, Canada

PhD

Graduation: September 2022 (expected)

Sharif University of Technology

Tehran, Iran

SUT is ranked 1st among Iranian Universities in Science and Engineering

2013 - 2015

Selected Achievements and Awards

•	Programming Contest (CCPC) Ranked 5th in Calgary Collegiate Programming Contest	Alberta, Canada 2022
•	Github Contributions Top-5 contributor in two open-source libraries STUMPY and mlxtend	Canada 2022
•	Gordon Lewis Hedberg Doctoral Scholarship Student with Excellent Grades	Alberta, Canada 2021
•	Deep Learning Certificates Cetificates: DL basics, hyperparameter tuning, CNN, ML project structure in DI	Deeplearning.ai 2021
•	Ph.D. National Competition Award Ranked 1 st among more than 1000 participants of PhD National Exam (Afterwards, I applied to Canada.)	Tehran, Iran 2016
•	M.Sc. National Competition Award Ranked 6 th among more than 5000 participants of M.Sc. National Exam	Tehran, Iran 2013

Employment

•	Research Assistant and Teaching Assistant	Albert, Canada
	Faculy of Grad Studies (University of Calgary)	Current
•	Electrical Engineer	Tehran, Iran
	MECO (MAPNA Group)	2016-2017

Voluntary Positions

Lecture Lead and Mentor in Python programming Schulich Ignite, University of Calgary	Alberta, Canada Winter 2022- Summer 2022
• Vice President of Grad Students • Department of Electrical and Software Engineering	Alberta, Canada 2017-2019
Evaluator **IEEE award committee, Graduate Student Association	Alberta, Canada 2017-2018

Soft Skills

Self-learning, problem-solving, and articulate in technical subjects

Extra-curricular Activities

Playing chess, listening to piano music, and reading philosophical books