**Omid Mehrabian** Email : omid.mehrabian@gmail.com www.linkedin.com/in/mehomid Mobile:+1-613-890-7946 Mobile:+1-613-890-7946

# Summery

Looking for a Software Engineering position in an exciting company that requires someone with leadership, a passion for dealing with complex problems and capability of delivering a model or tool to the customer. I have more than two years of work experience and a strong academic background in Software Engineering and Machine Learning.

# Skills

* Programming Languages: Python, C#, C, Matlab, Java
* Machine Learning Frameworks: Pandas, Scikit-Learn, Sciypy, Numpy, ,PySpark
* Software Methodology: Agile, Scrum
* Version Control System:Git, GitLab, GitHub
* Databases: HBase, Elastic Search, MySQL

# Experience

* **Micro Focus** Ottawa, ON

*Data Integration Engineer(Intern) May 2020 - Aug 2020*

* + Wrote a script for generating new tables in HBase for dynamic field mapping for working with different versions of Elastic Search.
  + Refactored the code for connecting to the HBase to working with the new Elastic Search and HBase based on the customer needs.
  + Automated the ETL Process using Apache Nifi for storing the new schema in Elastic Search and HBase.
  + Set up a new cluster on the the Cloudera for the new Elastic Search and HBase.
  + Updated the Bash scripts for including new data retention policies for HBase and Elastic Search.
* **Micro Focus** Ottawa, ON

*Data Science(Intern) Jan 2020 - Apr 2020*

* + Built a data generator from scratch based on the company’s new resolution for not using customer’s data and generating new data with similar statistics characteristics to the original data but not traceable.
  + Wrote a new python script for connecting to HBase and run multiple SQL queries for extracting stats from data.
  + Used Python Pandas for cleaning and manipulating the extracted data.
  + Used PySpark for improving the speed of clustering.
  + Resolved the issue for falsely detecting new observed entities as anomalistic behavior by tuning parameters on gamma function.
* **The Pc Room** Ottawa, ON

*Software Technician Jan 2019 -Dec 2019*

* + Maintaining the company website.
  + Helped with customer’s software issues.

# Academic Experience

* **University Of Ottawa** Ottawa, ON

*Teaching Assitant Sep 2019 - Dec 2020*

* + Helped with marking assignments, holding tutorials and lab sessions for introductory courses like introduction to computing and software engineering.
* **University of Khajeh Nasir Toosi** Tehran, Teh

*Data Science Research Assistant Sep 2016 -Sep 2018*

* + Assisted in developing a new method for improving K nearest neighbors classification performance.

# Selected Projects

* Observing the effects of feature selection algorithms on the performance of supervised machine learning algorithms for detecting malicious DNS over HTTPS (DoH) using python Pandas and Scikit-learn. (Current Project)
* Implementing a bot using python for gathering information from users on top of heroku cloud application platform.
* Implementation of neural networks using Python Scikit-learn for clustering patients with epileptic seizure based on their EGG Signal.

# Education

* **University of Ottawa** Ottawa, Canada

*Master of Science in Computer Science 2019 – 2021*

Selected Courses: Machine Learning, AI in Medicine, Algorithm Analysis and Design, Mining Software Repositories, Ethics in AI

* **University of Khajeh Nasir Toosi** Tehran, Iran

*Master of Science in Artificial intelligence and Robotics 2015 – 2017*

Selected Courses: Probabilistic Graphical Models, Reinforcement Learning, Data Mining, Neural Networks

* **University of Azad** Tehran, Iran

*Bachelor of Engineering in Computer Engineering 2009 – 2015*

Selected Courses: Data Structures, Algorithms, Introduction to Software Engineering

# Volunteering

* **University of Khajeh Nasir Toosi** Tehran, Iran

*Cooperation With Executive Committee Of The 25th Iranian On Electrical Engineering(ICEE 2017) 2016 – 2017*

# Interests

* Running,Tennis, Swimming
* Solving Puzzles, Card Games