Name	**Saba Izadkhah, M.Sc.**
E-mail	izadkhah@pdx.edu
Mobile	971-610-3235

CURRENT POSITION	Grad M.Sc. Computer Science at Portland State University Teaching Assistant, "Intro to Database Management System"
PREVIOUS POSITIONS	Teaching Assistant: "Discrete Structure" Fall 2021 "Intro to Database Management System" Winter 2022
COURSES TAKEN	**Machine Learning** **Artificial intelligence (AI)** **Natural Language Processing (NLP)** **Ethics in AI** **Reinforcement Learning** Internet, Web, & Cloud Systems Algorithm Design Database Management System Internetworking Protocols Data Engineering Intro to Web Development Front End Management Product Development
EDUCATION	**Master of Science (M.Sc)** **Computer Engineering** **University of Tabriz** Thesis: An Approach for Anomaly Detection in Mobile Ad Hoc Networks **Bachelor of Science (B.Sc)** **Computer Engineering** **Shomal University** Thesis: Production of multimedia software training of “Rational Rose”

PROFESSIONAL SKILLS

PostgreSQL, Microsoft SQL Server
Python
C++
PHP
HTML, CSS, and Java Script

PROFESSIONAL EXPERIENCES and PROJECTS

1- Tuberculosis detection from chest x-ray using machine learning algorithms including KNN, Local KNN, and Weighted KNN.
2- Implementing Image Captioning program to generating a textual description of an image using NLP and Computer Vision to generate the captions.
3- Measuring Bias in Word Embedding with hard-debias and double hard debias methods.
4- building a classifier that will predict whether a piece of text is “sarcastic” or “not sarcastic/regular”.
5- Writing a two-layer neural network to perform the handwritten digit recognition task, which included neural network structure, classification, and training in the MNIST dataset.
6- Implementing Gaussian Naïve Bayes to classify the Spambase dataset from the UCI ML repository.
7- Implementing the standard version of the K-Means and Fuzzy C-Means algorithm on a 2D dataset.
8- Implementing the best-first and the A* search algorithms to search for a solution to the 8-puzzle problem.
9- Writing a genetic algorithm that solves the 8-Queens Problem as a part of the AI course project.
10- Writing the Python program to have the Robot use Q-learning to learn to correctly pick up cans and avoid walls.

PUBLICATIONS

Leili Mohammad khanli; Saba Izadkhah, “An Approach for a Dynamic Anomaly Detection in Mobile Ad Hoc Networks”, **9th international ISC conference on information security and cryptology**, University of Tabriz, Iran

Saba Izadkhah; Mohammad Shahriari; Behzad Nemati Saray, “Galerkin and Collocation Methods for the Solution of Kelin-Gordon Equation Using Interpolating Scaling Functions” **International Journal of Nonlinear Science**-Vol.16(2013) No.2, pp.113-124.