



MSc.Student- Artificial Intelligence

ABOUT ME

I was born in 1998. I have been learning programming since 2012 (age 14). I first learned the C ++ language and got acquainted with this program for a year. Then I came across Java and gained a lot of experience in high school, such as Android programming. Then I pursued programming more seriously at university. During these years, I also did many projects with Python. I love to experience more and more as I can. You can find out this point in my resume and experiences. I'm like a plant and grow up every day if soil, water, and sunlight be occasion. On the other side enjoy fighting with problems like knights.

springBoot Tensorflow numPy

Python3

C++

Bash script

SQL

Cassandra

EDUCATION

2021-until Master of Science student, Artificial Intelligence

Allame TabaTabaei University of Theran (ATU)

Thesis (in progress): Diagnosing psychological diseases by NLP models like BERT

Neural Network
NLP
ML
Graph Mining
Expert Systems
Advanced Algorithms
Computational DM

2016-2021 Bachelor's Degree of Computer Science

Kharazmi University of Theran (KHU)

Thesis: Swarm intelligence optimization algorithm compare on traveling salesman

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NLP
Steps

2012 – 2016 **Diploma**

Allame Helli high school of Theran (National Organization for Development of Exceptional Talents)

Graduate in Mathematics and Physics. Winning the title of the best idea in the third seminar of Allameh Helli High School. Executive secretary of the third seminar of high school.

EXPERIENCE

Mar-2021 Big Data Engineer

Now Mahsan co.

Developer of BigData department of Mahsan Company. Develope Data colletorand ETL by Java, Python and Cassandra 3.11.2 and Cassandra 4.0.1 with rate of millions of data per second . Design and develope data piplines by using activeMQ and Kafka. Experienced on using cloud object storages like openIO, minIO, and ceph. Deploy and maintenance several cassandra cluster in

multi projects

Mar-2020 MicroService back-end developer

Mar-2021 Tourism IT co.

Design and develop digital banking service of TourismBank based on microservice architecture. Design Input and output gateway of the system with Rest API and inner communication with gRPC.

Familiar with Banking service business and designing.

Oct-2018 Java-SE developer

Jul-2019 TSIN co.

Deisign and develope ETL to Extract, Transform and Load data from any usual sql database (even

csv and files) to pracle data warehouse.

Oct-2013 Chief Executive Officer

Feb-2015 3rd Seminar of Allame Helli High School

Allame Helli holds a seminar yearly, where students present her achievement and creative design in plenty of fields. Students are responsible for the seminar and managers are chosen in voting. In the third seminar, I was the executive director and was in charge of issues related to the seminar. This was one of my first executive experiences in which we interacted with other schools in Tehran.

PROJECT

Python Intent classification

Implementation text intent classification by NLP method base on BERT

Python POS tagging task

Invent new method for part of speech tagging based on swarm intelligence and heuristic algorithms

Python Classification task

Implementation of classification methods like linear regression, BPNN, naive bayes testing Iris flower

dataset

Python Simulated Annealing algorithm

SA is a probabilistic algorithm which useing for optimization. It implemented on TSP datasets and

general optimizing

Python Red Deer algorithm

RDA is a swarm intelligence algorithm which useing for optimization. It implemented on TSP datasets

Python Firefly algorithm

FA is a swarm intelligence algorithm which useing for optimization. It implemented on TSP datasets

Python Ant Colony algorithm

ACO is a swarm intelligence algorithm which useing for optimization. It implemented on TSP datasets

Python Artificial Bee Colony algorithm

ABC is a swarm intelligence algorithm which useing for optimization. It implemented on TSP datasets

Python CIFAR-10 Classification

Classification on CIFAR-10 dataset with python and ipynb

Java Gain experience in Graphs

Development Graph algorithms like Dijkstra, Belman-Ford, Floyd-Warshall, BFS, DFS, etc.

Java Hafez Cryptography

Development of a personal idea to encrypt messages with Hafez poems

Java **P2P data transfer**

Development peer-to-peer socket connection and use packet to transform and fetch data via ether-

net

C/C++ Banner grabbing

Development of app that nmap and netcat to banner grabbing files of ip and collect data

Java Swipe Brick Breaker

Development of famous game Swipe Brick Breaker with JavaFX and Swing.

Java **Tic-Tac-Toe**

Development of famous game Tic-Tac-Toe with JavaFX and Swing.

RESEARCH

Swarm Intelligence algorithm

Familiar with the concepts of heuristics algorithms, meta-heuristics, swarm intelligence, and approximation algorithms.

Has study experience in the field of swarm intelligence algorithms and optimization algorithms based on random processes.

NLP POS-tagging by ACO

POS-tagging(Part Of Speech) is a familar task in NLP. It's usual to use Markov chain to solve this problem. In this research tried to present new sufficient way for this task.

LANGUAGES

Persian - native

English - upper-intermediate