Mohammad Mahdi Safari

Junior Data Scientist
Undergrad Student
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Profile

As a student in CE, I have always tried to be curious and open to new techs and concepts, to continue being hardworking and pursue my ideals. I have an interest in a broad subject of computer science in general but there has been a couple of years that I am keen on Artificial Intelligence and to be specific Machine learning and its related algorithms.
Personally, I have problematic-based and systemic thinking behavior and suitable for working in groups and inner leadership characteristics.

Education

B.Sc. in Computer Engineering
Amirkabir University of Technology, *2016 - present*

Diploma in Mathematics and Physics
National Organization of Development of Exceptional Talents, Tehran, Iran, *2008 - 2016*

Research Intrests

- Statistics
- Algorithms
- Machine Learning
- economics [behavioral]

Awards & Achievements

- Ranked 137st in the **National University Exam for B.Sc.**, among more than 160k participants, Aug 2015

Work Experience

ParsaSharif Institute
Position : Junior system developer *Oct '17 - Sep '18*

- Customising the style of next cloud for internal use.
- Building a customize automatic build system based on jenkins and docker.
- Really not relevant to the my intrests.

Hamgam IT
Position : Junior Data Scientist *Jun '18 - Dec '18*

- Research about the structure of Recommender system and their usage in geographical regions.
- Working on Data anonymization based on k-anonymity and entropy based method.

Amirkabir HPC
Position : Junior Data Scientist *Jan '21 - Present*

- Creating a dockerized jupyter notebook serverce on web using high-tech enterprise edition Nvidia GPUs.
- ...

Academic Projects

BioInformatic HMM
Supervisor : Dr. Hossein Zeinali *Fall '20*

- Identification of the most probable path of genetic mutations in RNA sequences.
- Using Python programming language and Bipython liberary.
- Implementation of basic sequence homogeneouty metrics.
- Implementation of visualization for basic UPGMA, Neighbour Joining, Parsimony for Phylogenetic Trees.

Information Retrieval
Supervisor : Dr. Ahmad Nikabadi *Spring '20*

- Developing a web page for showing a repository or news content and implementing basic IR metrics for accuracy.
- Implementing manually tf-idf for page ranking.
- Implementing precision recall visualization & ROC charts

Computer Skills

Languages: Python **Familier**: SQL, C, JAVA, js(VueJs)
Frameworks&Libraries: Numpy, scikit-learn, pandas, matplotlib
Linux: Lpic 101, Lpic 102

Relevant Courses

- Statistics
- Linear Algebra
- Introduction to Artificial Intelligence
- Data Mining
- Information Retrieval
- Bioinformatics

Online Courses

Ongoing:

- Linear Algebra
  Gilbret Strang [MIT OpenCourseWare]
- Probability Theory and Application
  Dr.Alishahi [sharif ocw]
- Machine Learning
  Andrew Ng [Coursera]

Books

Ongoing

- Discrete and Combinatorial Mathematics An Applied Introduction
  Ralph P.Grimaldi
- Introduction to Linear Algebra
  Gilbert Strang
- A First Course in Probability
  Sheldon m.Ross
- Introduction to Probability and Statistics for Engineers and Scientists
  Sheldon m.Ross

- Probability Statistics for Engineers & Scientists
  Ronald E. Walpole