Arghavan Moradi Dakhel

Ph.D. Candidate in Data Science
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SKILLS

PROGRAMMING
Python and Jupyter Notebook, R
HTML, CSS and JavaScript (D3.js)
C# (.Net), VB

MACHINE LEARNING
Regression
Classification
Bayesian Probability
K-Nearest Neighbors
Cosine Similarity, Pearson Distance
Natural Language Processing
Unsupervised Clustering
Topic Modeling (LDA)
Support Vector Machines

SOFTWARE
Oracle SQL, SQL Server and SQLigte
Github
QlikView
ITSM Service Desk
SAP

EDUCATION

PHD, DATA SCIENCE
Polytechnique Montreal University
Expected Fall 2022 | Montreal, CA
GPA: 4

MS, SOFTWARE ENGINEERING
Shahid Beheshti University
September 2016 | Tehran, IR
Thesis:Improving accuracy of social
recommender systems in sparse-data
environments
GPA:18.2/20

BS, COMPUTER ENGINEERING
University of Guilan
September 2013 | Guilan, IR

LINKS

Github:// **arghavanmo**
LinkedIn:// **moradi-arghavan**
Medium:// **@moradi.arghavan**
Twitter:// **@ArghavanMoradi**

PUBLICATION

A. Moradi , H. Tabatabaee and M. Mahdavi, "A Social Recommender System using item asymmetric Correlation", Applied Intelligence, Springer, 2017.

- built a new method, Item Asymmetric Correlation (IAC) to detect the implicit relationship between each pair of items (musics) in a music website
- Combined user touch-point dataset and the output of IAC with Matrix Factorization technique to improve the accuracy of music recommendation list
- Increased the testset recall of recommendation list up to 11% comparing to other state of the arts

EXPERIENCE

POLYTECHNIQUE MONTREAL **|PhD Candidate**
Jan 2019 – now|Montreal,CA

- Built a model to assess expertise level of developers by comparing the distribution of keywords in their source code
- Scraped, cleaned, and tokenized source code **by walking through Abstract Syntax Tree**
- **Built a model to recommend a list of developers** who can solve a bug based on the history of commits and bug resolving of developers in a Github repository

SAMSUNG ELECTRONICS **| Junior SW Project Manager**
Apr 2018 – Dec 2018|Tehran,IR

- Lead 3 Software Projects built for analyzing trade marketing data
  (Mostly in the phases of design, scheduling, testing, end-user training, and roll-out planning)
    - Human Traffic Counter: A tool to analyze human traffic in each retail store. The tool had connection into human counter camera in each store
    - Gift Redemption System (GRS): A tool to manage gift warehouse and redeem exclusive Samsung gift. **GRS recognized as a best practice of the region.**
    - Smasung+STAR: A tool to manage promoter's sales data, activities and incentive plans

ERICSSON **| Data Analyst (Network Optimization)**
Oct 2015 – mar 2018|Tehran,IR

- Worked closely with optimization team to understand their requirements to improve the performance of mobile network (2G/3G/LTE)
- Worked with unstructured data and generated analytical reports and dashboards to solve optimization problems
- Automated daily data transmission from main oracle DB to a local SQL server DB
- Developed and maintained a highly self-service reporting and data analysis tool to visualize mobile network KPIs

RESPINA **| Service Management Data Analyst (ITIL Framework)**
Feb 2015 – sep 2015|Tehran,IR