

Mohammad Falakmasir

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EDUCATION

UNIVERSITY OF PITTSBURGH
PHD IN INTELLIGENT SYSTEMS
Expected Feb 2021 | Pittsburgh, PA

MSC IN INTELLIGENT SYSTEMS
Jan 2015 | Pittsburgh, PA

SHARIF UNIV. OF TECHNOLOGY
MSC IN SOFTWARE ENGINEERING
Sept 2010 | Tehran, Iran

UNIV. OF SCIENCE & TECH.
BSC IN SOFTWARE ENGINEERING
Sept 2006 | Tehran, Iran

RESEARCH INTERESTS

Educational Data Mining

- Student Modeling
 - Adaptive Educational Systems
- Natural Language Processing
- Text Mining and Information Extraction
 - Search and Information Retrieval
 - Automated Essay Evaluation
 - Conversational Agents (Chatbots)

SKILLS

ARTIFICIAL INTELLIGENCE

NLP and Information Retrieval
NLTK • Gensim • spaCy • Solr
Machine Learning and Pattern
Recognition

Scikit-learn • Keras • Tensorflow
Data Science
Hadoop • Spark • Impala • AWS

SOFTWARE DEVELOPMENT

Design and Modeling:

RUP • Kanban • Agile

Over 10,000 lines:

Python • C++ • C# • PHP

Over 1,000 lines:

Java • JavaScript • CSS

Database Systems:

MS SQL Server • MySQL • mongodb

AWARDS

- 2017 ISP Fellowship
- 2014 Mellon Fellowship
- 2013 Best Student Paper
- 2012 Director's Fellowship
- 2011 ISP Fellowship

EXPERIENCE

WELLS FARGO | NLP DATA SCIENTIST

Sept 2019 – Present | Seattle, WA

- Working as a member of AI Center of Excellence, applying Machine Learning and topic modeling models to analyze consumer complaints data.
- Building NLP models to and identify unfair and deceptive treatment of customers and escalate them through company's executive offices.

CXO NEXUS | ENGINEERING MANAGER

Jan 2019 – Sept 2019 | San Francisco, CA

- Leading a team of engineers to develop a Business Intelligence platform and provide insight into companies' IT spending.
- Building a platform to analyze data from financial records and compare them with like-size agencies with similar line of business.

ASTOUND AI | MACHINE LEARNING / NLP SCIENTIST

May 2018 – Dec 2018 | Menlo Park, CA

- Working with a team of machine learning engineers and computational linguists to build a knowledge management platform using Hadoop and Spark, to replace forms and emails with collaborative service experiences that incorporate chatbots, intelligent knowledge retrieval, and real-time request fulfillment.

LEGALSIFTER | DATA SCIENTIST

May 2016 – September 2017 | Pittsburgh, PA

- Working as a machine learning lead on project LegalSifter, a distributed web-application to extract information from legal documents.
- Optimized classification models for extracting key terms and conditions from non-disclosure and confidentiality agreements.

E-LEARNING CENTER, UNIVERSITY OF TEHRAN

DATA ANALYSIS AND TECHNOLOGY CONSULTANT

Aug 2008 – Aug 2011 | Tehran, Iran

- Leading a team of engineers in migrating to a new online learning platform that supports online monitoring of student interactions.
- Created an online analytical processing (OLAP) framework using Microsoft SQL Server Analysis Service (SSAS).

CLICK E-LEARNING SOLUTIONS | CO-FOUNDER AND CTO

Mar 2006 – Mar 2008 | Tehran, Iran

- Leading a team of engineers to develop an online learning platform that served 4 major e-learning institutes with more than 10,000 online students.
- Led a team of content developers to produce web-based, interactive, multimedia courseware using Adobe Flash®, Presenter®, and Captivate®.

RESEARCH

SWORD LAB | GRADUATE STUDENT RESEARCHER

Sept 2013 – Present | Pittsburgh, PA

Working with **Kevin Ashley**, **Chris Schunn**, and **Diane Litman** to create a linguistic models that identifies argumentative elements from student essays.

PERSONALIZED ADAPTIVE WEB SYSTEMS (PAWS) LAB | GSR

Sept 2011 – Mar 2012 | Pittsburgh, PA

Worked with **Peter Brusilovsky** and **Sharon Hsiao** to analyze the impact of social performance visualization on student performance.