

Makbule Gulcin Ozsoy

CONTACT INFORMATION

University College Dublin
Insight Centre for Data Analytics
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<https://mgulcin.github.io/>

RESEARCH INTERESTS

Recommender systems, Machine learning, Information Retrieval, Text mining

EDUCATION

Middle East Technical University (METU), Ankara, TURKEY

- PhD, Computer Engineering, June 2016, GPA: 4.00/4.00
 - Dissertation Title: A Multi-Objective Recommendation System
- Visiting Student, Computer Science, October 2014 - September 2015
 - University of Calgary, Calgary-Alberta, CANADA

Middle East Technical University (METU), Ankara, TURKEY

- MSc, Computer Engineering, February 2011, GPA: 3.50/4.00
 - Dissertation Title: Text Summarization Using Latent Semantic Analysis

Middle East Technical University (METU), Ankara, TURKEY

- BSc, Computer Engineering, June 2008, GPA: 3.00/4.00
 - Senior Year Project: RadioRead - Text mining on Turkish medical radiology reports

WORK EXPERIENCE

Insight Centre for Data Analytics, University College Dublin (UCD), Dublin, IRELAND

- Postdoctoral Researcher **February 2019 - present**
 - Recommender Systems (Python): Designing and developing methods and modules for Reinforcement Learning-based Recommender Systems

Unscrambl LLC, Ankara, TURKEY

- Data Scientist **October 2016 - February 2019**
 - Natural Language Processing (Python): Developed modules for Named Entity Recognition and intent classification for Turkish and English texts
 - Machine Learning (Python): Designed and developed data pre-processing, data analysis, model training and evaluation modules, Performed analysis on batch data to extract insights and to solve variety of business problems, Developed predictive models using machine learning algorithms

T2 Yazilim, Ankara, TURKEY

- Software Engineer **June 2012 - October 2016**
 - GUI Development (Java): GUI development for a desktop application using Java Swing
 - Natural Language Processing (Java): Sentiment analysis on short unstructured documents, Designed and developed natural language processing modules of the project, Applied several different machine learning techniques
 - Computer Networks (C++): Inter-domain routing algorithms on MANETs (Mobile Ad-Hoc Networks), Performance-enhancing proxy for IP optimization on radio and satellite links

TUBITAK (Scientific and Technological Research Council of Turkey), Ankara, TURKEY

- Researcher **September 2009 - June 2012**
 - Computer Networks (C++): High Frequency radio communications, Designed and developed layered network protocol and clients for Stanag 5066 protocol, Routing algorithms in ad-hoc networks

HAVELSAN, Ankara, TURKEY

- Software Engineer **June 2008 - September 2009**
 - Image processing (C++): Moving object tracker and object classification of real-time images, Remote sensing and satellite image processing

PUBLICATIONS

- Bichen Shi, Makbule Gulcin Ozsoy, Neil Hurley, Barry Smyth, Elias Z. Tragos, James Geraci, Aonghus Lawlor. PyRecGym: A Reinforcement Learning Gym for Recommender Systems. Rec-Sys 2019: 491–495 (2019)
- Makbule Gulcin Ozsoy, Faruk Polat, Reda Alhajj. Effective Induction of Gene Regulatory Networks Using a Novel Recommendation Method. International Journal of Data Mining and Bioinformatics 22(2): 91-112 (2019)
- Makbule Gulcin Ozsoy, Tansel Ozyer, Faruk Polat, Reda Alhajj. Realizing Drug Repositioning by Adapting a Recommendation System to Handle the Process. BMC Bioinformatics 19(1): 136 (2018)
- Makbule Gulcin Ozsoy. From Word Embeddings to Item Recommendation. arXiv preprint arXiv: 1601.01356 (2016)
- Makbule Gulcin Ozsoy, Faruk Polat, Reda Alhajj. Time Preference-aware Dynamic Recommendation Enhanced with Location, Social Network and Temporal Information. ASONAM 2016: 909-916 (2016)
- Makbule Gulcin Ozsoy, Faruk Polat, Reda Alhajj. Making Recommendations by Integrating Information from Multiple Social Networks. Applied Intelligence 45(4): 1047-1065 (2016)
- Makbule Gulcin Ozsoy, Faruk Polat, Reda Alhajj. Modeling Individuals and Making Recommendations Using Multiple Social Networks. ASONAM 2015: 1184-1191 (2015)
- Makbule Gulcin Ozsoy, Faruk Polat, Reda Alhajj. Inference of Gene Regulatory Networks via Multiple Data Sources and A Recommendation Method. BIBM 2015: 661-664 (2015)
- Makbule Gulcin Ozsoy, Kezban Dilek Onal, Ismail Sengor Altingovde. Result Diversification for Tweet Search. WISE 2014: 78-89 (2014)
- Makbule Gulcin Ozsoy, Faruk Polat, Reda Alhajj. Multi-Objective Optimization Based Location and Social Network Aware Recommendation. COLLABORATECOM 2014: 233-242 (2014)
- Makbule Gulcin Ozsoy, Ruket Cakici. Contrastive Max-Sum Opinion Summarization. AIRS 2014: 256-267 (2014)
- Makbule Gulcin Ozsoy, Faruk Polat. Trust Based Recommendation Systems. MASSN 2013, Held in conjunction with ASONAM 2013: 1267-1274 (2013)
- Makbule Gulcin Ozsoy, Ferda Nur Alpaslan, Ilyas Cicekli. Text Summarization using Latent Semantic Analysis. Journal of Information Science 37(4): 405-417 (2011)
- Makbule Gulcin Ozsoy, Ilyas Cicekli, Ferda Nur Alpaslan. Text Summarization of Turkish Texts using Latent Semantic Analysis. COLING 2010: 869-876. (2010)

HONORS AND AWARDS

Recipient of the TUBITAK - International Doctoral Research Fellowship Program, 2014 - 2015
Finalist in Google Anita Borg Scholarship (EMEA), 2012
Graduated in Deans Honor List from the Middle East Technical University, 2008
Ranked in the first 0.05% among 1.5 million students in University Entrance Exam (OSS), 2003

COMPUTER SKILLS

Programming Languages: Python, Java, C++, C, SQL
Software Engineering Tools: IntelliJ IDEA, Eclipse, Atlassian Platforms (JIRA, Confluence), Git
Scientific Softwares: Pandas, Scikit-learn, ChainerRL, R, Apache Lucene, Weka, Mallet, OMNET++
Operating Systems: Unix/Linux, Windows

LANGUAGES

Turkish: Native
English: Fluent