Ayoub Bagheri (Curriculum Vitae)

Data scientist and researcher in the Department of Cardiology, Division of Heart and Lungs, University Medical Center Utrecht, Utrecht, the Netherlands.

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Department of Methodology and Statistics, Faculty of Social Sciences, Utrecht University, Utrecht, the Netherlands.

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Research interests

• Medical Data Mining

Machine Learning

• Text Mining

• Natural Language Processing

Work experience

Dec 2017 – Now	University Medical Center Utrecht Data scientist and researcher Department of Cardiology	Utrecht, the Netherlands
Jan 2015 – Dec 2017	University of Kashan Assistant Professor Data Mining and Machine Learning	Kashan, Iran
Sep 2009 – Jun 2014	Isfahan University of Technology PhD Researcher Data Mining, Sentiment Analysis Research Area, Thesis: "Aspect-based Sentiment Analysis for Online Reviews Based on Weakly Supervised Approaches", Sabbatical in University of Twente, The Netherlands	
Apr 2013 – Aug 2015	Naghsheh Negar Arya Corporation Isfahan, Iran Technical Manager, Database & Software Consultant Designing an Integrated Decision Support Systems for Municipal Spatial Database	
Apr 2011 – Aug 2015	Arya Polymer Pishgam Corporation Software Consultant	Isfahan, Iran
May 2010 – Apr 2011	Nasle Ayandeh Sepahan Corporation Technical Manager, Software Analyzer Design and Implementation of Central Citiz Databases of Province Organization, Isfahan	zen Database based on Integration of
Sep 2007 – May 2010	Isfahan University of Technology Researcher in Data Mining Text Classification, Implementing two new	Isfahan, Iran methods for Feature Selection

Education

Dec 2017 – Now	Utrecht University Researcher Department of Methodology and Statist	Utrecht, the Netherlands
Sep 2009 – Jun 2014	Isfahan University of Technology PhD in Computer Eng. Artificial Intellig	Isfahan, Iran gence, GPA 18.02 (out of 20)
May 2012 – November 2012	University of Twente Enschede, The Netherlands Human Media Interaction Group, (Sabbatical leave)	
Sep 2007 – Aug 2009	Isfahan University of Technology MSc in Computer Eng. Artificial Intellig	Isfahan, Iran gence, GPA 18.12 (out of 20)
Sep 2003 – Jul 2007	Ferdowsi University of Mashhad BSc in Software Engineering,	Mashhad, Iran GPA 15.14 (out of 20)

Qualifications and Expertise

- High value placed on teamwork, flexibility, and quality interpersonal communication
- Strong analytical, conceptual, and organizational skills
- Prompt in planning and implementing agreed-upon proposals and ideas
- Expert knowledge and great experiences in software analysis and programming languages such as:
 - o C, C++, C#, Java
 - o Python
 - o MatLab
 - o Clementine, Orange, Weka.
 - o Stanford's NLP toolkit in Java. NLTK, SpaCy, Keras and Pytorch in Python.
 - o R Studio
 - Hadoop
 - Jupyter and Beaker notebook

Languages skills

- Persian (Mother tongue)
- English (Fluent), IELTS Band Score: 7.5
 - o (Listening: 8.5, Reading: 8, Writing: 6, Speaking: 7)
- Dutch: Beginner

Achievements

- Honored with membership of Iran's National Elites Foundation, 2014.
- Awarded PhD Grant from Iran Ministry of Science, 2013.
- Funded Sabbatical study for six months from Iran Ministry of Science for University of Twente (Human Media Interaction group), the Netherlands, 2012.
- Placed 2nd among all of computer engineering MSc students (19 students) at the Isfahan University of Technology, 2009.
- Placed 149th among more than 7000 participants in the university entrance exam, Iran, 2007.

Teaching

- Machine Learning (MSc level)
- Data Mining (MSc level)
- Web Mining (MSc level)
- Introduction to Programming
- C++ Programming

- Discrete Mathematics
- Introduction to Database
- Data Structures in C++
- Algorithm Design
- Artificial Intelligence

Publications

• Journals:

- A. Bagheri, D. Oberski, P.G.M. van der Heijden, A. Sammani, and F.W. Asselbergs, "An unsupervised enrichment framework for classifying clinical cardiovascular notes", IEEE Transactions on Industrial Informatics, Submitted June 2018.
- A. Bagheri, M. Saraee, F. de Jong, ADM-LDA: An Aspect Detection Model based on Topic Modeling by Using Structures of Reviews, Journal of Information Science, ISI (IF: 1.238), SAGE Publication, April 2014.
- **A. Bagheri**, M. Saraee, F. de Jong, *Care more about customers: unsupervised domain-independent aspect detection for sentiment analysis of customer reviews*, Knowledge-Based Systems Journal, ISI (IF: 4.104), Elsevier, Volume 52, November 2013, Pages 201–213, Doi: http://dx.doi.org/ 10.1016/j.knosys.2013.08.011
- A. Bagheri, M. Saraee, F. de Jong, JASE: A Joint Aspect-Sentiment Extraction Model for Sentiment Analysis in Online Reviews, IEEE Transactions on Affective Computing, IEEE, Second revision, December 2013.
- S. Nadi, M. Saraee, A. Bagheri, A Hybrid Recommender System for Dynamic Web Users, International Journal of Multimedia and Image Processing (IJMIP), Volume 1, Issue 1, March 2011.

- S. Nadi, M. Saraee, A. Bagheri, FARS: Fuzzy Ant based Recommender System for Web Users, IJCSI International Journal of Computer Science Issues, Vol. 7, Issue 6, November 2010.
- **A. Bagheri**, M. Akbarzadeh, M. Saraee, *Finding Shortest Path with Learning Algorithms*, International Journal of Artificial Intelligence, Volume 1, Number A08, Autumn 2008.
- **A. Bagheri**, M. Saraee, *Persian Sentiment Analyzer: A Framework based on a Novel Feature Selection Method*, International Journal of Artificial Intelligence (IJAI), Accepted, 2014.
- A. Bagheri, M. Saraee, S. Nadi, *PSA: A Hybrid Feature Selection Approach for Persian Text Classification*, Journal of Computing and Security, Special Issue in Data Mining and Knowledge Discovery, 2015.
- A. Zaghian, A. Bagheri, A combined model of clustering and classification methods for preserving privacy in social networks against inference and neighborhood attacks, International Journal of Security and Its Applications, p. 95-110, 2016.

• Conference Papers:

- A. Bagheri, M. Saraee, F. de Jong, Latent Dirichlet Markov Allocation for Sentiment Analysis, in proceeding of the Fifth European Conference on Intelligent Management Systems in Operations, Manchester, UK, July 2013.
- A. Bagheri, M. Saraee, F. de Jong, An Unsupervised Aspect Detection Model for Sentiment Analysis of Reviews, in proceeding of 18th International Conference on Application of Natural Language to Information Systems, Springer, Manchester, UK, June 2013.
- M. Saraee, A. Bagheri, Feature Selection Methods in Persian Sentiment Analysis, in proceeding of 18th International Conference on Application of Natural Language to Information Systems, Springer, Manchester, UK, June 2013.
- A. Bagheri, M. Saraee, F. de Jong, Sentiment Classification in Persian Introducing a Mutual Information-based Method for Feature Selection, 21st Iranian Conference on Electrical Engineering, Mashhad, Iran, May 2013.
- M. Moghimi, M. Saraee, A. Bagheri, Modeling Batch Annealing Process Using Data Mining Techniques for Cold Rolled Steel Sheets, KDD4Service '11 ACM, California, USA, 2011.
- Z. Ghadiri, M. Saraee, A. Bagheri, Missing Values Techniques for Large Datasets (In Persian), in proceeding of 5th Data Mining Conference, Amirkabir University, Tehran, 2011.
- M. Moghimi, M. Saraee, A. Bagheri, Modeling Annealing Process Using Data Mining Techniques (In Persian), 3rd CEIT, Hamedan, Iran, February 2011.
- A. Bagheri, M. Saraee, M. A. Montazeri, *Persian Text Classification: A new Method based on SVM and TFV (In Persian)*, International conference on Industrial Engineering, Isfahan University of Technology, Isfahan, 2010.
- S. Nadi, M. Saraee, A. Bagheri, An Ant based Web Recommender system (In Persian), 4rd Iranian Data Mining Conference, Sharif University, Tehran, December 1st, 2010.
- M. Norouzzadeh, A. Bagheri, M. Saraee, Web Search Personalization: A Fuzzy Adaptive Approach, in proceeding of 2nd IEEE International Conference on Computer Science and Information Technology. Beijing, China 2009.

- A. Bagheri, M. Saraee, *Text news classification with Naïve Bayes algorithm (In Persian)*, in proceeding of 2nd Iranian Data Mining Conference, Amirkabir University, Tehran, 2008.
- A. Bagheri, M. Palhang, M. Ahmadzadeh, *Defeating CAPTCHAs with Learning Algorithms* (*In Persian*), in proceeding of 5th International ISC Conference on Information Security and Cryptology, Malek Ashtar University, Tehran, 2008.
- M. J. Maleki, A. Bagheri, *The effect of multi-word phrases on analysis of online reviews (In Persian)*, in proceeding of 3rd International Conference on Pattern Recognition & Image Analysis, Shahrekord University, Shahrekord, 2017.

Hobbies

Traveling, Playing & Watching Football, Watching Movies.

Personal Pages

Personal website: https://bagheria.github.io/

Scholar: http://scholar.google.com/citations?user=QWhiQdgAAAAJ&hl=en&oi=ao

LinkedIn: http://www.linkedin.com/pub/ayoub-bagheri/3b/740/691