Muhammed Yavuz Nuzumlalı

Istanbul, Turkey
+905305288743
manuyavuz@gmail.com

OBJECTIVE

I am a Ph.D. student focused on machine learning and natural language processing domains as well as being an iOS technical leader, a machine learning engineer, and an open-source software contributor.

EDUCATION

Bogazici University,   **Istanbul, Turkey**

- *Ph.D. in Computer Engineering,*   January 2016 - Present
  - Advisor : Taylan Cemgil
- *M.S. in Computer Engineering,*   September 2011 - January 2015
  - Thesis : Analyzing Stemming And Sentence Simplification Methodologies For Turkish Multi-Document Text Summarization
  - Advisor : Arzucan Özgür
- *B.S. in Computer Engineering,*   September 2006 - June 2011

PUBLICATIONS

Nuzumlalı M.Y. and Özgür A., Analyzing Stemming Approaches for Turkish Multi-Document Summarization, *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing* , EMNLP 2014

TECHNOLOGY SKILLS

Proficient : Objective-C
Competent : Python, Ruby, Java
Familiar : C++, C, Swift, Perl, MATLAB, Octave, Cassandra, Spark, Spark MLLib

RESEARCH EXPERIENCE

***Ph.D. Student* at Bogazici University**   **January 2016 - Present**

- Currently performing research on online matrix factorization techniques and their usage on the analysis of time series data.

***M.S. Student* at Bogazici University**   **September 2011 - January 2015**

- Proposed and developed the first multi-document text summarization system for Turkish language.
- Proposed and developed the first sentence simplification system for Turkish language.

***Member of AILab* at Bogazici University**   **June 2010 - June 2011**

- Attended to RoboCup Rescue Simulation League with RoboAKUT team. We became the 5th best team in the competition.
- Proposed and implemented a bidirectional A* search algorithm for searching of humans by agents in Rescue Simulation league. The new algorithm improved the average search time complexity by nearly 50

PROFESSIONAL EXPERIENCE *Senior Software Engineer* at Inomera Research   January 2013 - Present

- *Lead Machine Learning Engineer at Netmera*
  - Led the research project, which aims to automatically analyze huge amount of user behavior data collected from mobile applications, and make inferences and recommendations with the help of machine learning techniques. Following are a few good recommendation cases which we continue to work on them:
    * Selecting the audience automatically for a campaign to be delivered. Audience will contain the most likely ones to engage with the campaign.
    * Clustering people dynamically according to their behaviours and personal attributes and automatically proposing a campaign message and content for a particular cluster according to their common interests.
- *Technical leader of the iOS team*
  - Rewrote the Netmera iOS SDK from scratch, which will be open sourced once completed. It has great test coverage, and all testing and deployment process is automated via continuous integration.
  - Responsible for mentoring engineers, reviewing codes, deciding code standards, assuring best practices are followed.
- Led the company during the adoption of software development standards like code reviewing, testing, maintaining coverage, continuous integration, continuous delivery, and automatic code analysis.
- Pioneered the migration from central version control systems like *CVS* and *Subversion* to *git* in the whole company.

iOS Developer at Arneca Technology   July 2011 - January 2013

- Developed a few interactive magazine applications, an EPUB reader application, and a template application used to robustly publish 30+ applications for different events organized around the world.

OPEN SOURCE CONTRIBUTIONS *Core Team Member* at CocoaPods   October 2015 - Present

- Reduced "pod search" command response time for full text search by 90% by implementing an inverted document index for search.
- Actively contributing to the project by adding new features and fixing issues reported by users.

CERTIFICATES *Coursera*

- Machine Learning (Stanford University)   April 2015
- Mining Massive Datasets (Stanford University)   March 2015

OTHER SKILLS *Spoken Languages*

- Turkish (Native)
- English (Proficient)

REFERENCES

Arzucan Özgür, Assistant Professor
Department of Computer Engineering
Bogazici University
+902123597226, arzucan.ozgur@boun.edu.tr

Taylan Cemgil, Associate Professor
Department of Computer Engineering
Bogazici University
+902123594731, taylan.cemgil@boun.edu.tr

Ahmet Başaran, CTO
Inomera Research
+905335735294, ahmet.basaran@inomera.com