Yaser Keneshloo
Graduate Student
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Education

Fall 2013 - Current	**PhD Student** in Computer Science, Virginia Tech, USA. **Advisor** Dr. Naren Ramakrishnan
2010 - 2012	**M.Sc.** in Software Engineering, Iran University of Science and Technology, Iran
2006 - 2010	**B.E.** in Software Engineering, Shahrood University, Iran

Professional Experience

- **Virginia Tech** Arlington, VA
  GRA, Discovery Analytics Center. Advisor: Dr. Naren Ramakrishnan *Fall 2014 - Current*
  - Working on Abstractive News Headline Generation in collaboration with *The Washington Post* using Attention-Based Encoder-Decoder models. (Current)
  - Built a model in *Python* and *R* for forecasting the number of clicks that an article would receive after a day using early signals that we collect from it after 30 minutes of its publication. This model is an online tool, already being used in *The Washington Post* for predicting the popularity of news articles.
  - Built a model for forecasting the shape of the news article views and peak time of news article views. This model is at the development phase in *The Washington Post* and will be implemented and used along side the popularity prediction module.
  - Working on prediction of venues daily/weekly wine consumption in collaboration with *Sestra Systems*. We are building a model for predicting the demand for each venue using a combination of HMM, Regression, and Motif Clustering.
  - Analyzed the effect of open source datasets like daily price of commodities from *Premise* and internet traffic on websites from *Akamai* on predicting the Domestic Political Crisis in Latin America countries.
  - Collaborated on an analysis of the network of entrepreneurs on *VT* campus in Blacksburg and Roanoke area based on the Twitter Follower-Followee network.
- **Verisign Labs** Reston, VA
  Summer Intern, mentored by Galileo Namata *May 2014*
  - Worked on understanding Corporate Family Trees using community detection on noisy hypergraphs.
- **Virginia Tech** Blacksburg, VA
  GTA in Dept. of Computer Science. Instructor: Dr. Cliff Shaffer *Fall 2013 - Spring 2014*
  - Grading and tutoring duties for Data Structure in Java class of $\approx$ 100 students.
- **Mobin Research Center** Tehran, Iran
  Java Programmer *Summer 2013*
  - Worked on online clustering and classification of massive news feed streams on a distributed framework using *Apache Hadoop*, *Apache Lucene* and *Mahout*.
  - Implemented an online short text clustering in *Java* based on *Wordnet* dataset and different text corpuses like news wire corpus.
  - Generated the dependency management module of the project using Maven
- **Wikifegh** Tehran, Iran
  Research Intern *Winter 2012*

  - Querying and mining attributed social networks, Wikifegh social network.
  - Implemented a visualization module in *JSP* that can represent the connections among different entities of the network in a more comprehensive way than a database table to the system administrator.
- **Security Operation Centre Project** Tehran, Iran
  Researcher *Winter 2011-Winter 2012*
  - I was part of a team that Designed and Implemented an Intelligent Correlation Engine for the Security Operation Center (SOC) and Investigating the Performance of Correlation Engine and Knowledge Base Altogether.
  - Implemented a module for Event Correlation using Frequent Pattern Mining in Data Streams.
- **Netbarg.com** Tehran, Iran
  Web Developer *Fall 2011*
  - Implemented the access control module using the ACL (Access Control List)
  - Implemented the SMS sender and massive email distribution module using the MailChimp service

Research Statement

Research Focus: Data-driven contextual and temporal modeling of news article views to improve user news reading and editors writing experience

- *Application area:* Time-series prediction, Natural Language Processing
- *Broad Focus:* Data Mining, Machine Learning and Pattern Recognition.

Publications

Current Publications

2016 Y. Keneshloo, S. Wang, E.-H. S. Han, and N. Ramakrishnan. Predicting the shape and peak time of news article views. 2016

Y. Keneshloo, S. Wang, E.-H. Han, and N. Ramakrishnan. Predicting the popularity of news articles. In *Proceedings of the 2016 SIAM International Conference on Data Mining*, pages 441–449. SIAM, 2016

2014 Y. Keneshloo, J. Cadena, G. Korkmaz, and N. Ramakrishnan. Detecting and forecasting domestic political crises: a graph-based approach. In *Proceedings of the 2014 ACM conference on Web science*, pages 192–196. ACM, 2014

Other Publications

2013 Y. Keneshloo and S. Yazdani. A relative feature selection algorithm for graph classification. In *Advances in Databases and Information Systems*, pages 137–148. Springer, 2013

Technical Skills

Programming **Python**, **R**, Java, C/C++, Matlab

Javascript, Perl, HTML/CSS

Frameworks MapReduce, Spark, SQL, Keras