OSAMA KHALID

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Education

University of Iowa — 2016 - 2018
Masters in Computer Science (GPA 3.9/4.0)

Lahore University of Management Sciences — 2013 - 2015
Masters in Computer Science (GPA 3.2/4.0)

Lahore University of Management Sciences — 2009- 2013
Bachelors in Electrical Engineering (GPA 3.0/4.0)

Experience

Shopistan Inc. — Aug 2015 - Oct 2015
Software Engineer
Using JavaScript and R, developed recommendation systems for ecommerce services and worked on the optimization of the already existing sales system

Afiniti Inc. — Nov 2014 - Jan 2015
Analyst Software Engineer (intern)
Using the in house system and MySQL to develop matching Algorithms for call centers which optimally paired callers with call center agents

Lahore University of Management Sciences — Aug 2012 - May 2013
Teaching Assistant
Courses: Principles of Digital Audio and Video (Fall 2012), Circuits I (Fall 2012), Digital Signal Processing (Spring 2013).

Skills

Languages

Python	HTML5	JavaScript
R	MySQL	Java
C++	Stata	Visual Basic 6

Software	**Misc.**	
RapidMiner	MATLAB	NLTK
Hadoop	Akka	Shell Scripting
Weka		

Academic Interests

Web Mining	Big Data Analysis	Health Data Analytics	Spaital Data Analytics
Machine Learning	Natural Language Processing	Anthropology	Text Analysis

Projects

Inferring Social Power using Linguistic Cues
Due to the scale of the data available, used Hadoop in tandem with R to mine and analyze the Enron Email Corpus, and quantitatively come up with a list of words that defined and encapsulated the hierarchy and power relations in social situations

Recommendation System for Pakwheels
Used a modified k-means algorithm in R to build a system for Pakwheels (Pakistan's largest online auto-retail portal) that recommended prices to people selling cars and recommended cars to people looking to buy cars

Interesting Subpath Discovery in Spatio-Temporal Datasets
Due to the large volumes of real world spatio-temporal datasets it is computationally challenging to discover subpaths of importance. The project intends to speed up the discovery of non-monotonic interesting subpaths in such datasets.

Fraud Detection in Twitter Networks
The project looks at collusion networks on Twitter that Retweet for cash by examining their twitter feeds and coming up with heuristics to detect such networks.