

Haniyeh Mahmoudian

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Objective:

I am looking for a role in driving business/industrial solutions through data and predictive analytic. My education, and work experience in implementation of machine learning techniques and leading projects enables me to solve real world problems.

Education:

Universitaet Bonn, PhD– Astronomy/Astrophysics, 2013

Bonn, Germany

Sharif University of Technology, B.Sc./M.Sc.– Physics, 2003-2009

Tehran, Iran

Skills:

Programming languages and tools: C/C++, Python, scikit, pandas, R, SQL Oracle, Hadoop, Bash scripting

Methods: Bayesian statistics, Time series, Optimization/regression, Recommender systems, Neural network, SVM, signal processing

Operating systems: Windows, Linux, OS

Employment Experience:

Senior Science Analyst, Infor, Boston

09/2014-06/2015

- ◆ Present science materials and the results to the team
- ◆ Produce reports on implementation of predictive analytic in different industries.
- ◆ Analyze and process large data set using SQL developer/Hadoop, R and python.
- ◆ Utilize time series techniques (SES, HW) to improve existing forecast feature in workforce management (WFM) application.
- ◆ Provide methods, quality metrics and implement algorithms upon the need of the project.
- ◆ Implement recommender system based on collaborative filtering methods e.g. Clustering/decision tree and sequential pattern mining algorithms such as Apriori/Spade in customer relation management (CRM).
- ◆ Mentoring and training new hired Analysts

Private tutor, Self employed

08/2013-09/2014

Research Assistant, Universitaet Bonn, Bonn, Germany

12/2009-06/2013

- ◆ Analyze and process large data set using image processing techniques
- ◆ Maintain programs to process data based on statistical testing (R/Matlab)
- ◆ Introduce a direct model fitting (regression) method based on mathematical algorithm to process and reconstruct the Hubble Space Telescope and other telescopes data.
- ◆ Develop the method with programming in C and Python.
- ◆ Significant improvement in the determination of the Hubble constant with respect to the previous works on this challenging system.

Academic Experience:

Teaching Assistant, Astro-lab course at Universitaet Bonn	2010-2012
Teach observational astronomy, supervise and mentor projects for M.Sc. students	
Teaching Assistant, Sharif University of Technology	2007-2009
Teaching Special relativity, General physics and several physics lab courses	

Publication:

Mahmoudian H., Wucknitz O., Direct model fitting to combine dithered ACS images. A&A magazine. 556:6, July 2013. <http://arxiv.org/abs/1307.4177>.

Languages

- Persian: Fluent
- English: Fluent
- German: Intermediate
- Japanese: Beginner

Interests

- Reading
- Camping/hiking
- Playing music instruments
- Travelling

Personal information of the references can be provided upon the request.