Sahar Rahmani

Current Address: Tehran, Iran, 1445874593 Novin Hi-Tech. Solutions Co. No. 46 Female, 28
rahmanie.sahar@gmail.com
Cell Phone: (+98)918 8737945
Home Page: rahmanie-sahar.github.io
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Research Interests

- ♦ Data Science Applications
- ♦ Semantic Technologies

EDUCATION

- ♦ M.Sc. in Computer Science with Specialization in Electronic Commerce Sept. 2017
 July 2020
 - · Department of Computer Engineering and Information Technology (CEIT), Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
 - · CGPA: 18.64/20
 - · Thesis: Exploiting Data Lake to Improve Business Intelligence Generations.
 - Thesis Grade: 19.7/20
- ♦ B.Sc. in Information Technology Engineering

Sept. 2011 - Aug. 2015

- · Department of Computer & Information Technology Engineering, University of Kurdistan, Kurdistan, Iran
- · CGPA: 15.62/20
- · **Project**: Automating Kowsar Heart Hospital of Kurdistan by developing a .NET Web Application for patients to track their medical data, have access to the laboratory reports and view their treatment results and schedule appointments.
 - Project Grade: 18/20

Honors and Awards

- ♦ Ranked 3rd based on GPA, among M.Sc. students of Department of Computer Engineering and Information Technology of AmirKabir University of Technology (Tehran Polytechnic) with CGPA of 18.64/20.
 July 2020
- ◇ Ranked 44th among 30.000 students in the annual National University Entrance Exam (a.k.a "Konkoor-Arshad") and got admission to AmirKabir University of Technology (Tehran Polytechnic). Tehran Polytechnic is one of the top schools in the region and the university of choice for top ranking students in the university entrance exam and one of the top 400 leading schools around the globe.
 September 2017

RESEARCH EXPERIENCE

- ♦ Research Assistant at Intelligent Systems laboratory (ISLab) Sept. 2017 July 2020
 - · Supervisor: Professor Ahmad Abdollahzadeh Barfourosh
 - · In ISLab, we work on developing methods and approaches for creating ontologies of world realities especially in the field of computer science and engineering. We investigate ontology creation from all levels and views. We test and implement different methodologies of ontology creation. Also we test different ontology editors and define their weakness and strengths. In short we explore ontology from each any every angle and perspective.

INDUSTRIAL EXPERIENCE

- ♦ Web Application Developer at Novin Hi-Tech Solutions July 2020 Present Novin Hi-Tech Solutions is a knowledge-oriented, learning, innovative and forward-looking company which operates in line with professional developments in the fields of banking, insurance and stock market activities. I am currently working there in Internet Banking Team As a Web Application Developer using web form technology and c# to develop the web application.
- ♦ **Desktop Developer at** ZamZam Summer 2015 Aug. 2017 ZamZam Plastic Industries Co. is one of the biggest manufactures of polyethylene pipes and fitting products for water, gas supplies and sewer in Iran.

TEACHING EXPERIENCE

- ♦ Teaching Assistant
 - ♦ AmirKabir University of Technology (Tehran Polytechnic)

	Information Technolog ning (ITSP)Operating Systems Lab	,	- Applications	ayment Systems of Social Networks Analy- onic Commerce
	\diamond University of Kurdistan (UoK)			
	- Fundamentals of IT		- Operating Sy	ystems
PUBLICATIONS	 Proposing a Framework for Comparative Comparison of Different Generations of Business Intelligence Systems 			
	\cdot Authors: ${\it Sahar~Rahmani}$ and Ahmad Abdollahzadeh Barfourosh			
	\cdot Accepted in Journal of Research Studies in Computer Engineering and Information Technology - 2020			
	♦ Semantic Data Governance in Data Lakes by Ontology Engineering			
	\cdot Authors: ${\it Sahar~Rahmani}$ and Ahmad Abdollahzadeh Barfourosh			
	\cdot Submitted to Journal of Research Studies in Computer Engineering and Information Technology - 2021			
DATA SCIENCE SKILLS & APPLICATIONS	 ♦ Principals of Data Science & Machine Learning: Mechanisms with respect to data preparation and algorithms for reducing data size (feature selection) and techniques on how to use ML algorithms in SQL server under Python programming language were practiced • Practiced Tools: 			
	ScikitMatplotlib	NumpyPandas		
	♦ Data Mining by Integration Service & Analysis Service in SQL Server (SSIS & SSAS): The basic concepts of data mining and its applications along with crisp methodology in the real world development.			
	· Practiced Tools, Technique	s & Concepts:		
	 Classification & Regres * Linear & Logistic I * Evaluation Method * Decision Tree * Random Forest * Evaluation Method trix, ROC, AUC, F 	 ETL Data Warehousing & OLAP Data Cleaning Clustering * Density Based, Hierarchical, Grid Based 		
	♦ Data Reporting by Integration Service in SQL (SSRS)			
	· Matrix Report	· PowerBI		· Bing Map
	· KPI	\cdot Shape		· Mobile Report Publisher
	♦ Principals Natural Language Processing: Text pre-processing operations, feature extraction, and text summarization techniques were practiced.			
	· Practiced Tools, Techniques, and Concepts:			
	 Auto Tagging Data Parsing Parsivar Nltk 	LemmatizeNERStop WorkChunker &		POS TaggerBOWVSCodeTFIDF

♦ Data Science Applications:

- · Recommender Systems
- · Optimization
- · Fraud Detection

- · Social Network Analysis
- · Natural Language Processing

GENERAL SKILLS

⋄ Programming

- · Desktop/Back End: Visual Basic.NET, Java, C, C++, C#, Python
- · Web/Front End/DB: ASP.NET, HTML5, CSS, JavaScript, Bootstrap, SQL Server
- · Frameworks: .Net
- ♦ **Tools**: Microsoft Visual Studio, Microsoft SQL Server Management Studio, Microsoft PowerBI, Eclipse, IntelliJ, Protege, JIRA, Git, Gephi, Pajek, CPN-Tools, Weka, Magento, Pycharm, VMware Workstation, Adobe Photoshop I⁴T_EX.
- ♦ **Methodologies**: Scrum, Crisp
- ♦ Operating Systems: Windows, Linux-CentOS7 (Cert: LPIC-1)

LANGUAGES

- ♦ English (Fluent)
- ♦ Persian (Native)
- ♦ Kurdish (Native)

Related Courses

♦ Master's Relevant Coursework

- · Business Intelligence (17/20)
- · Electronic Payment Systems (19.9/20)
- · Electronic Commerce Systems Security (18.1/20)
- · Electronic Commerce Systems Engineering (19.25/20)
- · Advanced Databases (17/20)
- · Business Process Re-Engineering (18.5/20)
- · Applications of Social Network Analysis in Electronic Commerce (20/20)

♦ Bachelor's Relevant Coursework

- · E-Commerce (19.04/20)
- · Information Maintenance Management in IT (18.75/20)
- · Advanced Programming (17/20)
- · Artificial Intelligence (19/20)

- · Fundamentals of Information Technology (17/20)
- · Multimedia Systems (20/20)
- · Strategic Management of Information Technology (19.5/20)

REFERENCES

- ♦ Ahmad Abdollahzadeh Barforoush [M.Sc. Thesis Supervisor]
 - · Professor at Department of Computer Engineering, Amirkabir University of Technology (Tehran Polytechnic). *Homepage Link. Email Address: ahmadaku@aut.ac.ir*. Phone Number: (+98)21 64542733
- ♦ S.Alireza Hashemi Golpayegany [M.Sc. Thesis Referee]
 - · Associate Professor at Department of Computer Engineering, Amirkabir University of Technology (Tehran Polytechnic). *Homepage Link. Email Address: sa.hashemi@aut.ac.ir*. Phone Number: (+98)21 64542726
- ♦ Alireza Abdollahpouri [B.Sc. Project Supervisor]
 - · Associate Professor at Faculty of Engineering, Department of Computer Engineering, University of Kurdistan. *Homepage Link. Email Address: abdollahpouri@uok.ac.ir*. Phone Number: (+98)87 33664600