Sahar Rahmani

Current Address: Tehran, Iran, 1445874593 Novin Hi-Tech. Solutions Co. No. 46, Between Shahrara and Patrice Lumumba Jalal-Al-Ahmad Exc.

Cell Phone: (+98)918 8737945 Home Page: rahmanie-sahar.github.io Last Update: February 25, 2021

rahmanie.sahar@gmail.com

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

Female, 28

- \cdot 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.

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.

Publications

- ♦ Proposing a Framework for Comparative Comparison of Different Generations of Business Intelligence Systems
 - · Authors: Sahar Rahmani and Ahmad Abdollahzadeh Barfourosh
 - Accepted in Journal of Research Studies in Computer Engineering and Information Technology 2020
- ♦ Semantic Data Governance in Data Lakes by Ontology Engineering
 - · Authors: Sahar Rahmani and Ahmad Abdollahzadeh Barfourosh
 - · Submitted to Journal of Research Studies in Computer Engineering and Information Technology 2021

TEACHING EXPERIENCE

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

	Information Technology Strategic Planning (ITSP)Operating Systems Laboratory		 Electronic Payment Systems Applications of Social Networks Analysis in Electronic Commerce
	⋄ University of Kurdista	an (UoK)	
	Fundamentals of ProgrammAdvanced Programm	- ' '	Fundamentals of ITOperating Systems
RELATED COURSES	♦ Master's Relevant Coursework		
	 Business Intelligence (17/20) Electronic Payment Systems (19.9/20) Electronic Commerce Systems Security 		 Advanced Databases (17/20) Business Process Re-Engineering
	Electronic Commerce Sy $(18.1/20)$	ystems Security	(18.5/20)
	· Electronic Commerce Systems Engineering $(19.25/20)$		· 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) 		 Fundamentals of Information Technology (17/20) Multimedia Systems (20/20)
	· Artificial Intelligence (19)	, ,	Technology (19.5/20)
	Data Science Skills, Experiences & 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, Techniqu		ies & Concepts:	
 Classification & Regression Algorithms * Linear & Logistic Regression * Evaluation Methods (LMSE, MSE) * Decision Tree * Random Forest * Evaluation Methods (Confusion Matrix, ROC, AUC, F1 Score) 		 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		· Shape	· Mobile Report Publisher
		····	

- \diamond **Principals Natural Language Processing**: Text pre-processing operations, feature extraction, and text summarization techniques were practiced.
 - \cdot Practiced Tools, Techniques, and Concepts:

Sahar Rahmani

Auto Tagging
 Data Parsing
 Parsivar
 NER
 Stop Work
 VSCode
 Nltk
 Chunker & N-Gram
 TFIDF

♦ Data Science Applications:

· Recommender Systems

· Social Network Analysis

· Optimization

· Fraud Detection

· Natural Language Processing

GENERAL SKILLS

⋄ Programming

- · Desktop/Back End: Visual Basic.NET, Java, C, C++, C#, Python
- \cdot 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 I⁴TEX.
- ♦ Methodologies: Scrum, Crisp
- ♦ Operating Systems: Windows, Linux-CentOS7 (Cert: LPIC-1)

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.

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

LANGUAGES

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