

Marzieh Bitaab

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RESEARCH INTERESTS

My research interests are:

Applied Machine Learning
Deep Learning

Cybersecurity
Natural Language Processing

EDUCATION

Arizona State University

PhD, Computer Science

- **4.0/4.0** GPA
- Funded by [SEFCOM Lab](#)

Spring 2020 - 2023

Tempe, AZ

Shiraz University

MSc, Computer Science, Cybersecurity

- **4.0/4.0** GPA

2015 - 2018

Shiraz, Iran

Shiraz University

BSc, Computer Science, Software Engineering

- **3.57/4.0** GPA

2011 - 2015

Shiraz, Iran

TECHNICAL SKILLS

Skills: Data analysis using Python, PyTorch, Tensorflow, Keras, Numpy, and Scikit

Experiences: Matlab, Kotlin, and JAVA.

EXPERIENCE SUMMARY

Programming Competition Director

2020-2021

Women in Computer Science at ASU (WiCS: <http://wics-asu.org>)

- Organized the annual WiCS programming competition
- Designed programming challenges and test cases for the programming competition
- Managed volunteers for the programming competition

Parsi GLUE

2020

Allen Institute for AI - Remote

- Participated in a project for creating benchmark datasets/models for the Persian language
- Annotated data for training NLP models for different tasks
- Programmed a crawler to collect question answering data from Persian forums automatically

SELECTED PROJECTS

Hand Gesture Detection

2021

- Created an Android application to detect hand gestures through the camera
- Coded a server to receive the gesture video for analysis and detection
- Designed and trained a Convolutional Neural Network (CNN) to detect hand gestures based on video frames

Active Scam Detection Based on Social Media Data

2020

- Crawled social media websites to gather information about scam websites
- Trained a scam detection model based on social media data to detect malicious websites
- Deployed a scam detection model on Reddit website as a bot on /r/scams ([about bot](#))

Analyzing COVID-19 related Scam Domains	2020
<ul style="list-style-type: none"> ▪ Coded a crawler to automatically gather news, URLs, and DNS records from different sources ▪ Analyzed the collected data to find trends on COVID-related scam domains ▪ Investigated the attackers' activities during the COVID-19 pandemic 	

Voice-guided Grocery Shopping via Google Assistant	2019
<ul style="list-style-type: none"> ▪ Crawled commonly used coupons website to get deals and prices on different grocery items ▪ Built a Google Assistant-based application to shop for groceries using voice commands 	

Question Tag Detection	2018
<ul style="list-style-type: none"> ▪ Trained different machine learning models to detect Stack Overflow-like question tags 	

PUBLICATIONS (Google Scholar: [Marzieh Bitaab - Google Scholar](#))

Detecting Scam Websites at Scale	under review
Marzieh Bitaab, Haehyun Cho, Adam Oest, Rana Pourmohamad, Tiffany Bao, Ruoyu "Fish" Wang, Yan Shoshitaishvili, Adam Doupe	
Scam Pandemic: How Attackers Exploit Public Fear through Phishing	eCrime'20
Marzieh Bitaab, Haehyun Cho, Adam Oest, Penghui Zhang, Zhibo Sun, Rana Pourmohamad, Doowon Kim, Tiffany Bao, Ruoyu Wang, Yan Shoshitaishvili, Adam Doupe, Gail-Joon Ahn	
Parsinlu: a suite of language understanding challenges for persian	TACL
Daniel Khashabi, Arman Cohan, Siamak Shakeri, Pedram Hosseini, Pouya Pezeshkpour, Malihe Alikhani, Moin Aminnaseri, Marzieh Bitaab , et al.	
Hybrid Intrusion Detection: Combining Decision Tree and Gaussian Mixture Model	ISCISC'17
Marzieh Bitaab, Sattar Hashemi	

HONORS AND AWARDS

Grace Hopper Celebration Student Scholarship	2021
Offered in recognition of academic and technical achievements	
Invited Speaker at the FTC's PrivacyCon'21	2021
Presented the effects of the COVID-19 pandemic on the rise of malicious websites	
Knowledge Mobilization Award Finalist	2021
Offered in recognition of extraordinary academic achievements	
Awarded WiML funding for the ICML conference registration	2020
Offered in recognition of extraordinary academic and technical achievements	
Winner of Sunhacks Hackathon	2019
Our team won the second place by building a voice-guided application for easy grocery shopping	

EXTRACURRICULAR ACTIVITIES

Teacher Assistant for CSE 545	2021
Grace Hopper Celebration Privacy and Security Committee Member	2021
Reviewer at the Computer and Security Journal	2021
Teacher Assistant for CSE 365	2020