Ismayil Ismayilzada

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Education

Azerbaijan State Oil and Industry Univers — Baku, Azerbaijan
Bachelor of Information Technology Information Technology *GPA: 3.6* — 2018 - 2022

Budapest University of Technology and Economics — Budapest, Hungary
Master of Computer Science Engineering Computer Science Engineering — 2022 - 2024

Experience

CompServis — Baku, Azerbaijan
Helpdesk — 2021 - 2021

- Troubleshooting hardware and software issues
- Managing user accounts and permissions
- Ensuring that all technical issues are resolved in a timely and professional manne

TuranBank OJSC — Baku, Azerbaijan
Junior Software Developer — 2021 - 2021

- Development of new software modules for Core Banking Systems
- Working with and making changes to the Legacy code.
- Creating views, functions and stored procedures
- Writing optimized SQL queries for integration with other applications

Nokia Solutions and Networks Kft. — Budapest, Hungary
Software Engineer Trainee — 2023 - 2024

- NLP Project Involvement
- Machine Learning Model Development
- Model Fine-Tuning
- Python Scripting

Skills

Python:	NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow
C#:	.NET, ASP.NET, .NET Core, REST API, WinForms, WPF, Entity Framework
Database Management:	SQL, PL/SQL, Oracle, MySql, MsSql, PostgreSQL
CI/CD tools:	Git, GitHub, GitLab, Team Foundation Server, Jira, Trello, Travis
Software Development Tools:	PyCharm, Jupyter Notebook, Google Colab, Visual Studio Code, Visual Studio

Projects

Pre trained Speaker recognition embedding models for disorder speech classifications *Machine Learning, x-vector,, ECAPA, ensemble learning, Boosting* https://github.com/Isi-Atash/Pre-trained-Speaker-recognition-embedding-models-for-disorder-speech-classifications
This project aims to investigate the binary classification of voice disorders using speaker verification embedding models.

Security of Machine learning based Malware Detection *Machine Learning, CNN, VSCode, Adversarial Robustness Toolbox (ART), MNIST database, Pytorch, Tenserflow*
https://github.com/Isi-Atash/Security-of-Machine-learning-based-Malware-Detection
Adversarial examples are subtly altered code that deceive machine learning models into making incorrect predictions, and my role involves creating methods to identify these modifications, enhance the resilience of malware detection algorithms, and devise backdoor attack strategies.

Backdoor Attacks Against Machine Learning-Based Malware Detection *Python, Adversarial Robustness Toolbox (ART), Keras, Matplotlib and VisualKeras, Numpy, Tenserflow, Scikit-learn*
https://github.com/Isi-Atash/Backdoor-Attacks-against-Machine-Learning-based-Malware-Detection
This project develops a Convolutional Neural Network (CNN) model to identify and counter backdoor attacks in machine learning-based malware detection, particularly focusing on IoT environments, using advanced tools like Keras, Python, and the Adversarial Robustness Toolbox.