NERYA BIGON

RESEARCH & SOFTWARE DEVELOPMENT

[in] [GitHub] **Portfolio**

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Passionate about research and programming, and eager to learn about new technologies.
A fast learner, team player, and highly adaptive to new environments.
Looking for opportunities to enhance my work experience and to improve my skills.

PUBLICATIONS

Augmented Wav2Vec 2.0: ASR Improvement Using Data Augmentation for Under-Represented Languages

- In this paper, we propose a novel approach to improve automatic speech recognition (ASR) performance for under-represented languages using data augmentation.
- **Under review** at Expert Systems With Applications

Crossing Language Identification: Multilingual ASR Framework Based on Semantic Dataset Creation

- This study proposes an innovative methodology to enhance the performance of multilingual Automatic Speech Recognition systems by building a custom multilingual dataset
- **Published** at Machine Learning With Applications

- In both papers, my role was to run the experiments all the way from the dataset creation and training of the models to documenting the results.
- I wrote the sections about the datasets, experiments and results, and the contribution.

PROJECTS

chatgpt like app
- A Flutter chat app that uses GPT4 to generate responses and DALLE to generate images based on user input.
- Responsive layout for mobile, tablet, and desktop devices, theme mode switcher (Light/Dark), save and load chat history, accessibility tooltips for buttons
- Full conversations (aware of the context), ability to change the model's parameters.

For more projects check out my **Portfolio**

EDUCATION

B.Sc. in computer science & mathematics
Ariel University | 2020 - 2023

- Deep understanding of programming fundamentals such as OOP, design patterns, and Data Structures.
- Analyzing complexity and efficiency of algorithms.
- Knowledgeable about computer networking, Linux, machine learning, deep learning, and more.

MILITARY SERVICE

Combat Soldier
Served as a combat soldier in the infantry corps, and at the present I'm part of the military reserve force.

SKILLS

Python	Docker	Networking	**ML/DL:**
Java	Git	Flutter (dart)	PyTorch
C/C++	OOP	Kivy/KivyMD	datasets - (Hugging face)
C#	SQL / NoSQL	Photoshop	transformers - (Hugging face)

LANGUAGES

Hebrew - Native
English - Excellent