Toronto, Ontario • sercan_yildiz@outlook.com • +1 (437) 262-5805
github.com/sercan-yildiz-sy • *linkedin.com/in/sercan-yildiz-sy*

Sercan Yildiz
Software Developer

Professional Summary

Experienced Python Developer and researcher with a strong background in machine learning, neural networks, and data science. Proficient in implementing mathematical algorithms and developing AI solutions, currently working on independent projects that can be found on my GitHub account.

Education

Seneca College   *Toronto, Ontario*
Ontario Graduate Certificate, Business Information Technology   *September 2022– April 2024*
- Built a TensorFlow model predicting infant sleep states with 95% accuracy; collaborated on data visualizations and a user-friendly website interface.

Istanbul Technical University   Istanbul, Turkiye
Bachelor of Science, Mathematics Engineering   *September 2016 – February 2022*
- Applied LaGrange Interpolation and Gauss-Seidel Method in MATLAB; analyzed and visualized multi-source COVID-19 datasets in R to assess the impacts of government policies across countries.

Experience

Crypttech   *Istanbul, Turkiye*
Python Developer   *June 2022 – September 2022*
- Designed neural network architecture using PECNet, fostering team collaboration through weekly reviews.
- Developed custom Python functions for neural networks, enhancing performance with NumPy and SciPy.
- Created algorithms to optimize system activation and training, improving computational efficiency.

Tubitak   *Istanbul, Turkiye*
Researcher and Developer   *June 2020 – June 2021*
- Worked with REST API tools for data extraction from newspapers using Python, enhancing data accessibility.
- Implemented OCR with Tesseract for text extraction, saving data in multiple formats for versatility.
- Integrated advanced spellchecker with OCR, achieving a more precise data extraction process.
- Employed Masked Language Modelling with BERT and PyTorch to refine the spellchecker, leading to noticeable results in text correction capabilities.

Projects

Quickly – Kitchen Inventory App (C#, .NET MAUI, SQLite, MVVM)
- Built a mobile app to manage kitchen inventory (pantry, fridge, freezer) using .NET MAUI and SQLite.
- Implemented item add/edit/delete, category/location filtering, and modern UI with XAML.

Skills

Technical: Python, Matlab, R, TensorFlow, Keras, PyTorch, NumPy, Pandas, SciPy, Rest API, Object Oriented Programming, Neural Network, Machine Learning, Data Science, Git, SQL, C#, .Net
Soft: Communication, Team Player, Attention to Detail, Leadership, Critical Thinking
Language: English (Fluent), Turkish (Native)