Sercan Yildiz

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Education

Seneca College   Toronto, Ontario

Ontario Graduate Certificate, Business Information Technology   September 2022– April 2024

- Developed a machine learning model using TensorFlow to predict infant sleep states with 95% accuracy, complemented by collaborative efforts with team members to create visualisation charts and a user-friendly website interface.

Istanbul Technical University   Istanbul, Turkiye

Bachelor of Science, Mathematics Engineering   September 2016 – February 2022

- Wrote an algorithm for LaGrange Interpolation and Gauss-Seidel Method using Matlab.
- Worked on multiple datasets, extracting information from them, merging the necessary information in one Data frame and then visualising them using R to discover the effects of Government Policies on COVID-19 in Different Countries using R programming language.

Experience

Crypttech   Istanbul, Turkiye

Python Developer   June 2022 – September 2022

- Designed and implemented a neural network architecture based on PECNet, with weekly team gatherings to review progress and solutions.
- Developed custom functions including activation, deactivation, normalization, and optimizer to be used in neural network using Python's numPy and sciPy modules.
- Developed mathematical algorithms to determine how the system is supposed to be activated, and where to start training.

Tubitak   Istanbul, Turkiye

Researcher and Developer   June 2020 – June 2021

- Utilized REST API using Python's request model to access newspapers and extract the necessary data.
- Implemented OCR techniques to extract text from images of newspapers with Google's tesseract and created a system to save the data in various formats including image, text, and table using Python.
- Found and merged datasets including words, names, and addresses and using this dataset developed a spellchecker to correct inaccuracies in the OCR-generated text.
- Employed Masked Language Modeling with BERT, PyTorch, and Transformers to further improve the accuracy of the spellchecker.
- Integrated the spellchecker with the OCR system to generate a final, more accurate version of the extracted data.

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, HTML, CSS, JavaScript
Soft: Communication, Team Player, Attention to Detail, Leadership, Critical Thinking
Language: English (Fluent), Turkish (Native)