



About Me

I am a recent graduate in Industrial Engineering and Management, now starting my master's degree in IEM with a specialization in Data Science. I am passionate about AI and analytics, particularly in the areas of NLP, SNA, and machine learning. I enjoy applying innovative thinking to solve complex problems and collaborate in dynamic environments. My goal is to lead impactful AI projects or provide expert consultation in intelligent systems.

Education

Industrial Engineering And Management with an emphasis on intelligent systems, Ben Gurion University. 2019-2024

main courses and Projects :

Final Project Comparing Custom ML Algorithm vs. Beta-Weighted Predictions from Untrained ML Models -

Developed and compared a basic neural network with an ensemble learning approach, utilizing beta-weighted predictions from multiple untrained models. Applied the BFGS optimizer and ReLU activation function. The project involved preprocessing a housing dataset from Kaggle and evaluating performance through Mean Squared Error (MSE). The analysis provided valuable insights into the behavior and effectiveness of both models in regression tasks. (using Python).

NLP&SNA - Gained expertise in Natural Language Processing and Social Network Analysis, focusing on extracting and analyzing textual data and examining social networks. Conducted text mining, tokenization, sentiment analysis, topic modeling, graph theory, centrality measures, community detection, and network visualization. For the final project, analyzed the "beef" between Kendrick Lamar and Drake using Reddit data, including data collection, preprocessing, sentiment analysis, and social network visualization. Implemented algorithms to identify central figures, analyze community structures, and uncover key themes and sentiments, demonstrating the practical application of NLP and SNA techniques to real-world data.(using python and Gephi).

Machine Learning - Applied machine learning methodologies to develop robust predictive models, prominently contributing to an exploratory data analysis (EDA) and project implementation. Proficiently utilized Python libraries including Pandas, NumPy, Scikit-learn, and NLTK to implement advanced algorithms such as ANN, Decision Trees (Random Forest), and SVM for a successful fraudulent job detection project, achieving 97.7% accuracy. (using Python).

IIOT - Implemented distributed algorithms, including MGM, MGM2, DBA, LMADS, and Max Sum, for Dynamic Task Assignment and optimization problems within the framework of IIoT. Applied these methodologies to effectively address complex task allocation and optimization challenges. (using Python).

Foundations of Artificial Intelligence - Mastered AI methodologies such as heuristic search, decision trees, neural networks, and reinforcement learning. Spearheaded projects including dynamic task assignment with A* search and optimization using genetic algorithms. Demonstrated proficiency in Python, Pandas, NumPy, and Scikit-learn, achieving innovative solutions and optimized performance in complex AI challenges. (using Python).

More Relevant Courses: BI, Analysis and design of information systems, Databases, Regression, Simulation

Work Experience

Private Math Teacher 2019-2020

Office Manager Of The HAREL-YATIV Law Firm 2018-2019

- Managed and supervised a team of 10 employees, including their hiring and training.
- Implementing and working with the CRM customer management system.
- Dealing with potential clients and holding legal consultation meetings.
- Generate crucial reports, contributing valuable insights and aiding informed decision-making processes

Military Service

Communications Warrior In The Artillery Corps

- Operation of advanced and crucial communication systems in the field
- Work under pressure

Programming Languages & skills

- Programming languages: Python, Java, SQL, C#, VBA, R
- Work environments: PyCharm, Microsoft SQL Server, Eclipse, RStudio, VBA, CRM and SolidWorks.

Languages

- Hebrew - Native tongue
- English - Fluent, both verbal and writing