IOANNIS MAMALIKIDIS

COMPUTER & DATA SCIENCE

INTRODUCTION

Hi, I'm Ioannis, and I am passionate about data science, programming, and getting to use the latest technologies. As an organised, motivated, and highly creative individual, I love developing solutions which deliver first class results, as well as the challenges of working within a fast-paced working environment. With over 5 years of experience in Python, R and VB.Net, both as standalone & using Azure ML Cloud Computing, I'm ready to create whole solutions with both hard code and a user-friendly GUI. In an era of an ever-expanding horizon of knowledge and discovery, my passion for research and tackling problems in the form of source code could prove a fruitful ally.

EXPERIENCE

SENIOR MACHINE LEARNING ENGINEER| MEDOID AI

2024 - Present

In my role as Senior Machine Learning Engineer and project leader at Medoid AI, I head the "Synthetic Data Generation" initiative, collaborating closely with our client in Israel to define and prioritise feature requirements, establish timelines, and guide development. This project uniquely focuses on generating entire SQL databases with complex table relationships, unlike traditional tabular synthetic data generation. To achieve this, we leverage the architecture of the open GPT-2 model. The system is containerised with Docker, version-controlled with git, and PyTorch is used for neural networks. In this project, I break down project tasks, delegate work items, and actively contribute to model design and code implementation.

LEAD DATA SCIENTIST| PERSIUM

2022 - Present

As a dedicated Data Scientist at Persium, my focus has revolved around leveraging my expertise in handling and analysing timeseries data, specifically pollutants and atmospherics. Within this role, my primary objective is to design, implement, and train cutting-edge Neural Networks as real-time Forecasting models which provide valuable insights for environmental monitoring and analysis. Additionally, a crucial aspect of my work involves creating a robust and efficient RESTful API that exposes the methods and utility functions of the Forecasting models, Health Models, Co-location and others to the entire Back End system, enabling seamless integration and interaction with other components.
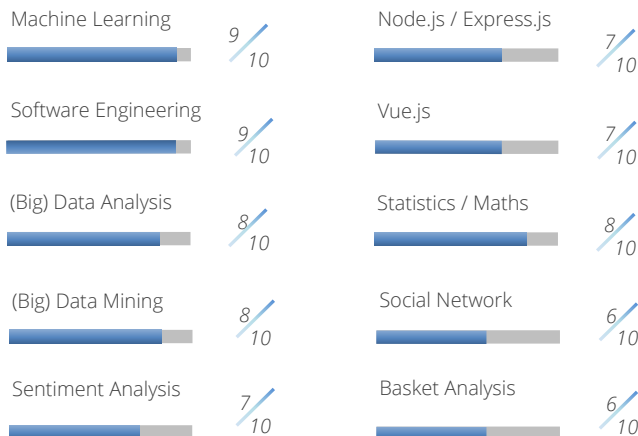
PROJECT MANAGER | VIANOX SVOLOS

2021 - 2024

Managing the technical part of 'DeliNet', a complete platform for on-demand last mile, has afforded me the opportunity to collaborate with stakeholders, identify their wants and needs in as low an abstraction level as needed to ensure my team and I have fully grasped the totality of this new service's concept and can set realistic and accurate milestones. Working on this I have liaised with different project teams, both in-house and external. Development-wise, I employ an agile methodology via Azure DevOps, where I assume the role of SCRUM master, which facilitates better communication through the meetings as well as having a complete improved iteration at the end of each spring, ultimately delivering client-focused results on time.

DETAILS

📞 (+30) 698 03 86 212
📞 (+30) 24210 71287
✉️ Giannis_Mamalikidis@msn.com
🏠 https://NihilisTsLab.com
in /in/giannis-mamalikidis
Ⓢ /nih1l1st
🐙 /N1h1l1sT

SKILLS

Machine Learning	9/10	Node.js / Express.js	7/10
Software Engineering	9/10	Vue.js	7/10
(Big) Data Analysis	8/10	Statistics / Maths	8/10
(Big) Data Mining	8/10	Social Network	6/10
Sentiment Analysis	7/10	Basket Analysis	6/10

ML TECHNIQUES

Deep Neural Networks	Ensemble Methods
LLMs	Convolutional NNs
Anomaly Detection	RNNs
Transformers	Object Detection
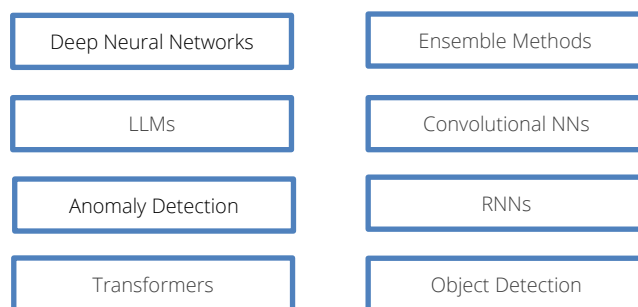
EDUCATION

M.SC IN COMPUTER SCIENCE

Aristotle University of Thessaloniki
2017 graduate ·

B.SC IN ELECTRICAL ENGINEERING

Eastern Macedonia & Thrace Institute of Technology
2014 graduate

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EXPERIENCE (CONTINUED)

DATA SCIENTIST | AKKA TECHNOLOGIES

2018 - 2020

As part of the Data Science team in AKKA Technologies, I've worked on projects ranging from creating Deep Neural Networks for predicting cavitation in water pumps to creating a concept system wherein devices with batteries (Electric Cars, Solar-powered Houses, Mobile phones, etc.) can automatically buy and sell energy depending on the user's schedule and the predicted prices for each implied point in time within the schedule. Technologies I leveraged include PyTorch, TensorFlow 2.0, H2O.AI Sparkling Water (Hadoop/Spark) and MXnet through R and Python to handle Regular and Big Data via SQL Server and NoSQL for Machine Learning purposes, and Tableau and Power BI for visualisation/demonstration purposes.

DATA SCIENTIST | GAMBLING MALTA LIMITED

2017 - 2018

As a member of the "Intelligent Systems Lab" group which got the project for Fraud and Anomaly Detection for Stoiximan (Gambling Malta Limited), I worked with Cloud Services (Azure, AzureML, SQL Server) and employed Machine Learning (unsupervised learning and anomaly detection techniques using R, PowerShell, Bash) to create a system which has the ability to detect non-permissible behaviour, such as money laundering or addiction to the lottery or casino.

PUBLICATIONS

ANALYZING THE ROLES AND COMPETENCE DEMAND FOR DIGITALIZATION IN THE OIL AND GAS 4.0 ERA

2021, IEEE, https://ieeexplore.ieee.org/abstract/document/9598932

MACHINE LEARNING METHODS FOR CUSTOMER'S PAYMENT ACCEPTANCE PREDICTION IN AN ELECTRICITY DISTRIBUTION COMPANY

2017, ACM Proceedings of the 21st Pan-Hellenic Conference on Informatics, https://dl.acm.org/citation.cfm?id=3139367
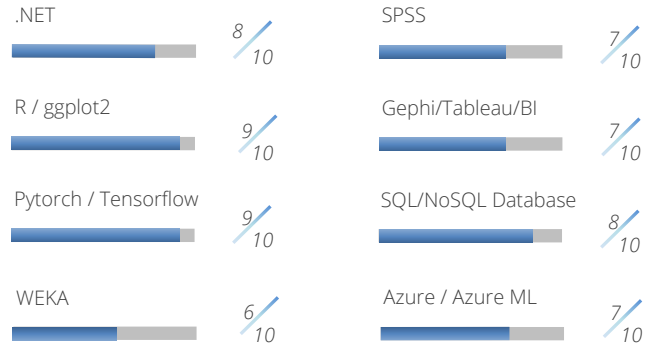
A FRAMEWORK FOR COMPARING MULTIPLE COST ESTIMATION METHODS USING AN AUTOMATED VISUALIZATION TOOLKIT, INFORMATION AND SOFTWARE TECHNOLOGY

2014, Elsevier, Pages 310-328, https://doi.org/10.1016/j.infsof.2014.05.010

STATREC: A GRAPHICAL USER INTERFACE TOOL FOR VISUAL HYPOTHESIS TESTING

2012, PROMISE '12 Proceedings of the 8th International Conference on Predictive Models in Software Engineering, Pages 39-48, https://dl.acm.org/citation.cfm?id=2365331

TECHNOLOGIES

.NET — 8/10
SPSS — 7/10
R / ggplot2 — 9/10
Gephi/Tableau/BI — 7/10
Pytorch / Tensorflow — 9/10
SQL/NoSQL Database — 8/10
WEKA — 6/10
Azure / Azure ML — 7/10

ANALYTICAL TECHNIQUES

Descriptive Statistics	Statistical Inference
Correlation Analysis	Regression
ANOVA	Factor Analysis & PCA
Discriminant Analysis	Cluster Analysis

INTERESTS

SCIENCE
Science intrigues me and it is something I'm very passionate about. I've read many a book and watched a plethora of documentaries from contemporary scientists, including Neil deGrasse Tyson, Brian Cox, Brian Greene, Richard Dawkins, Lawrence Kraus and Michio Kaku. Being able to comprehend the world around me on a deep level and viewing it through the lenses of astrophysics, classical and quantum mechanics, chemistry, mathematics and chaos theory, elates me.

SOCIALISING
Being with friends, conversing or simply unwinding together is important to me. We are all social beings, and everything seems so much better when one is amongst friends. Sharing a moment, learning, or experiencing something new, or merely watching a series or going to the cinema with friends is my notion of happiness.