

Vasiliki Theofili Nikolaidi

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EDUCATION

Master's in Data Science & Artificial Intelligence

University of Liverpool (Sept 2023 - Present)

Classification: 1st

Integrated Master's in Electrical & Computer Engineering

University of Patras, Greece (Oct 2016 - Nov 2021)

Classification: 2:1

WORK EXPERIENCE

Data Analyst

QA Ltd, Remote (Sept 2023 - Present)

- Conducted data cleaning, statistical analysis, and exploratory data analysis (EDA) implementing Python, VBA, DAX, Office Scripts and PowerQuery to increase processing speed by 25% for consistent datasets to uncover trends and insights
- Created interactive dashboards using Power BI and Tableau, improving decision-making and increasing data-driven decisions by 30%
- Implemented Power Automate solutions to streamline and automate tasks, including reminders, refreshing data, and custom flows, reducing manual effort by more than 50%
- Customised Kanban boards and Gantt Charts using JSON and conditional formatting for SharePoint offering enhanced project tracking, usability and progress visualisation for 30+ employees
- Applied NLP and ML in Python to analyse qualitative data and developed an AI assistant to identify weak areas and suggest targeted staff training programs, resulting in a 10% improvement in training effectiveness
- Maintained strong stakeholder relationships and supported partner relationships with data-driven insights, aligning data initiatives with business objectives

Lecturer & Module Leader

QA Ltd, Birmingham (Mar 2022 - Sept 2023)

- Lecturer in Computer Sciences (Levels 4-7) for Ulster University, University of Roehampton, and Solent University teaching Data Science, Data Analytics, Analytics & Business Intelligence, Web Technologies, Internet of Things, Advanced Database Systems, Project Management
- Module Leader for Foundation Computing (Level 3), Web Technologies (Level 4), Web Application Development (Level 5), Data Science (Levels 5 and 7)
- Managed teams of 3-5 lecturers per module, including assessment creation, reviewing marking criteria, organising standardisation meetings and moderating marking

Research Staff - Software Engineer

University of Patras, Greece (Mar 2019 - Jun 2022)

- Programmed IMU sensors in C++ for Line Following and Maze robots for the Robotics Club. Line Following robot "Dromeas" has competed and won in 3 international robotics competitions
- Acquisition of biosignals from 30 individuals, analysis and engineering of EMG Signals in C++ and Python for bionic prosthetic arms
- Developed a new family of onset and offset detection algorithms for electromyography (EMG) signals, based on the Teager-Kaiser Energy Operator (TKEO) with low error rates above 12dB

Foundation Tutor

Winsor Education, Birmingham (Jun 2020 - Sept 2020)

- Level 3 Tutor for undergraduate general engineering foundation programmes in varied engineering disciplines teaching core physics concepts, key mathematics skills and computing principal

Biomedical Engineering Intern

General University Hospital of Patras, Greece (Nov 2019 - Apr 2020)

- Repaired 70+ small and medium sized medical devices including injectors, ECGs, C-arm, chromatographs, monitors, defibrillators, and blood analysers
- Created a desktop application in Python for the acquisition, analysis and pattern recognition of ECG signals to allow for detection of irregular patterns with 93% accuracy
- Established detailed acquisition guidelines for new medical equipment and devices, leading to a 30% reduction in procurement errors and ensuring compliance with industry standards, enhancing patient care quality

RESEARCH

Analysis of pre-market and after-hours stock price changes to predict market trends – Dissertation, 2024

EMG Onset and Offset Detection via a Modified Threshold Crossings Algorithm – Research Paper presented at the 30th Mediterranean Conference on Control and Automation (peer reviewed), Jun 2022

Surface Electromyographic (sEMG) Signal Acquisition-Analysis-Classification For The Real-Time Control Of A Robotic Hand – Diploma Thesis, Oct 2021

TECHNICAL AND SOFT SKILLS

Programming Languages + Tools: Python, C, C++, HTML, CSS, PHP, JavaScript, TypeScript, JSON, SQL (SQL Server, MySQL, PostgreSQL), NoSQL (MongoDB), React.js, Next.js, GitHub (Git)

Data Analysis Tools: Excel (VBA, DAX, PowerQuery), Python

Visualisation Software + Libraries: Power BI, Tableau, matplotlib, seaborn, plotly

Data Science Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, Polars, SciPy

Desktop Software: Microsoft Office (Word, Excel, PowerPoint), Power Platform (Power Automate, Power Apps)

Cloud Technologies: Microsoft Azure, AWS

VOLUNTEER WORK

Head of Logistics and Fundraising Coordinator, IEEE Student Branch, University of Patras – IEEEXtreme 13.0, Google Hash Code (Feb 2021 and Apr 2020)

Organiser and Head of Logistics – Patras Science Festival (May 2019), Patras, Greece

Interpreter (French - Greek) – Mediterranean Beach Games (Aug 2019), Patras, Greece

LANGUAGES

Greek – Native

English – Fluent Proficient user (IELTS 8.5/9.0 and University of Michigan Proficiency ECPE)

French – Fluent Proficient user (DALF C2)

German – Independent user (Goethe B2)

Russian – Independent user (Pushkin B2)

Clear enhanced DBS Check