

Tomi Illes

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WORK EXPERIENCE

Neuron Solutions

Feb. 2024 – Present

Data Engineer

Remote

- Neuron Solutions delivers tailored AI and GenAI solutions, training and consulting services for organizations.
- Used the Azure SDK in Python to integrate database, storage, and authentication functionalities into web apps.
- Engineered automated workflows to process invoices in Azure, significantly improving operational efficiency.
- Conducted data preprocessing, EDA and model inference to cleanse and uncover patterns in healthcare and production line datasets, supporting model development and improving project outcomes.
- Automated generation of data science and ML training materials for professionals at a large bank using GenAI.
- Helped develop a chatbot evaluation system to score LLMs and RAGs on various metrics via the Ragas library.

IBS - International Business School of Budapest

Nov. 2023 – Present

Data Science Instructor

Remote

- IBS provides diverse education to students from 80 countries, focusing on innovative business education.
- Delivering regular data science lectures on data preparation and ML models, covering both theory and practice.

IFUA Horváth

Dec. 2021 – Present

Azure IoT Engineer | Freelancing since Feb. 2024

Budapest, Hungary

- Horváth is an independent management consultancy with over 1400 employees globally, providing performance management and transformation expertise through data-driven solutions to top clients across various industries.
- Designed, implemented and maintained a Smart Energy Management platform for a leading oil company.
 - Created an end-to-end streaming IoT solution with ETL pipelines on Azure and PowerBI dashboards.
 - Enabled near real-time monitoring to optimize energy consumption, reduce costs, and detect anomalies.
 - **Azure Stack:** IoT Hub; ADF; Logic Apps; ADX; DataLakes; Managed Identities; Containers; Python
- Performed in-depth analytics on historical IoT energy data with Databricks and PySpark to identify trends and anomalies, delivering actionable insights that enabled clients to optimize energy consumption and reduce costs.

HackerIntro

Sep. 2021

NLP Engineer | Contract

Remote

- Detected and extracted names of individuals plus their list of soft and hard skills from their CVs using spaCy.

European Solidarity Corps, EU

Oct. 2020 – Sep. 2021

Volunteer

Granada, Spain

- Organised and ran Erasmus+ projects for young people locally, nationally and internationally across Europe

EDUCATION

Durham University

Oct. 2015 – Jun. 2020

MSci in Computer Science and Mathematics (within the Natural Sciences programme)

Durham, UK

- **Class II Division 1 with Honours**
- Latin Social Dance Society founder, president and dance instructor, 2016 – 2020

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Microsoft Certified: Fabric Analytics Engineer Associate; Azure AI Fundamentals; Azure Data Fundamentals; DeepLearning.AI: Deep Learning Specialization by Andrew Ng
- **Skills:** Problem Solving; Curiosity; Public Speaking; Teaching; Azure; Cloud Architecture; ETL/ELT Pipelines; Machine Learning; Neural Networks; GenAI; Databricks; IoT Solutions; Data Analysis; SQL; Python
- **Interests:** Dancing; Escape Rooms; DIY projects; Basketball; Skiing; Nature; Sunsets; Boardgames; 1% rule