Tomi Illes

tomilles97@gmail.com ❖ +36 20 415 1427 ❖ Budapest, Hungary

WORK EXPERIENCE

Neuron Solutions   **Feb. 2024 – Present**

Data Engineer | Freelancing   *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 | Part-time   *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 Data Engineer | Full-time, 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 IoT platform for a leading oil company.
    o Created an end-to-end streaming IoT solution with ETL pipelines on Azure and PowerBI dashboards.
    o Enabled near real-time monitoring to optimize energy consumption, reduce costs, and detect anomalies.
    o **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