



Richard Csanaki

Data Scientist

Profile

I am a Microsoft Certified Data Scientist with 5+ years of international experience in working on data analytics and research covering the entire BI pipeline: ETL, data modeling, visualization, reporting and ML-based advanced analytics.

Employment History

LEGIONNAIRE at FRENCH FOREIGN LEGION, Aubagne

November 2023 — March 2024

Given the developments in Ukraine and the Middle East, I had to see for myself what the military life is like so I joined the French Foreign Legion. After a successful selection, completing one of the toughest military training programs in the world and becoming a Legionnaire I think I have seen enough.

BI DEVELOPER at MAGNA INTERNATIONAL, Graz

June 2021 — August 2023

Global HR Reporting:

- The first full-fledged BI pipeline utilizing all global HR data available inside a decentralized international organization using SAP, Workday, SQL, Office 365 source systems
- Complex database-, model-, and report-level security and encryption based on location, organizational hierarchy and database access levels
- Established in an automated dev, uat, prod deployment scheme both on-premise and in the cloud (SSAS and Azure AS)
- The key business areas covered by the reports: Talent Management, Succession, Recruiting, Learning, Workday service licenses, Project Management

Global HR Advanced Analytics:

- Building on the Global HR Reporting system's cleaned data, experimenting with Azure automated ML solutions and manually built models to determine employee retention and potential promotions

DATA SCIENTIST at MIC AUDIO SOLUTIONS GMBH, Graz

December 2022 — May 2023

Smart hearing aid startup:

- Noise removal ML solution deployed on embedded audio processor
- Challenge: getting a pre-trained noise removal model working on an Arduino system with C and CPython

JUNIOR BI DEVELOPER at ABYLON CONSULTING LTD., Budapest

February 2021 — May 2021

OTP Bank Plc. („VideoCC AI” project):

- AI-based fraud detection system R&D with the Budapest University of Technology and Economics
- Machine learning-based computer vision model development (Python - OpenCV, dlib)

Details

Szombathely

Hungary

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Links

[LinkedIn](#)

[Portfolio page](#)

[GitHub](#)

Languages

English

German

French

Hungarian

Hobbies

I like to spend my free time in the mountains, climbing or hiking.

- Automatization framework development for main processing application, video data preprocessing, metadata storage and playback utilization
- Challenges: communicating complex machine learning and digital image processing terminology to business stakeholders and establishing a line of productive communication between researchers and developers, integrating modular results into a central processing application

Richter Gedeon Plc. („IT BI” project):

- Automated data warehousing and Power BI reporting for KPI and management data
- Developing ETL processes for multiple data sources: SharePoint Online Excel, MSSQL, JIRA, ServiceNow, SAP HANA
- Challenges: standardizing format of these multiple data sources while preserving properties of the dataset such that it is compatible with the already existing data mart structure

BUSINESS INTELLIGENCE INTERN at ABYLON CONSULTING LTD., Budapest

May 2019 — January 2021

Hungarian State Railways (Ticket Sales project):

- Automated SSIS package generation with Biml and C#
- Oracle and SQL Server environment comparisons
- Automated testing of ETL process results
- Power BI Report Server and SSAS model usage monitoring
- Automated test case generation with SQL and C# within Abylon Rapid Analytics
- Governance reports (BI process metadata analysis)
- OLAP cube construction
- Code-based Power BI Report Server management and manipulation within Abylon Rapid Analytics
- Challenges: consolidate huge data sets and conversion from Oracle DB to SQL Server

National Ambulance Service (BI and „MINTA” projects):

- Microsoft BI environment set-up (SQL Server, Visual Studio, Power BI Report Server, etc.)
- OLAP cube construction
- Challenges: processing of large datasets on outdated infrastructure

RESEARCH ASSISTANT at UNIVERSITY OF SOPRON, Sopron

May 2019 — January 2021

- Data-based decision making with machine learning tools on equity market data ([Link to BSc Thesis](#))
- Big Data driven automated data analysis and decision-making, the basics of machine learning project
- Gateway 1.0 for the SensorHUB framework: MQTT-based module development

Education

BUSINESS INFORMATICS ENGINEER MSC, UNIVERSITY OF SOPRON, Sopron

January 2021 — March 2021

In order to pursue my professional goals and aspirations I left my MSc studies.

**BUSINESS INFORMATICS ENGINEER BSC, UNIVERSITY OF SOPRON,
Sopron**

January 2017 — January 2021

**HIGH SCHOOL DIPLOMA, SZOI VÖRÖSMARTY MIHÁLY HIGH SCHOOL
AND INTERNATIONAL SCHOOL OF FRANKFURT, Szentgotthard,
Frankfurt**

January 2010 — January 2017

✦ Courses

**MICROSOFT CERTIFIED AZURE DATA SCIENTIST ASSOCIATE
(DP-100), MICROSOFT**

★ Accomplishments

**3RD PLACE AWARD IN THE NATIONAL MSc AND BSc THESIS
COMPETITION, Budapest**

2021

My [BSc thesis](#), titled "Data-based decision making with machine learning tools on equity market data" has achieved the 3rd place award in the yearly National MSc and BSc Thesis Competition, organized by the Scientific Association for Infocommunications. ([Link to competition page](#))

**NATIONAL HIGHER EDUCATION SCHOLARSHIP, SCHOLARSHIP OF
THE REPUBLIC, Budapest**

2018, 2019, 2020

NEW NATIONAL EXCELLENCE PROGRAM, Budapest

2018

**JOHN VON NEUMANN COMPUTER SOCIETY - OGIK CONFERENCE,
Sopron**

BEST POSTER PRESENTATION

BUSINESS INFORMATICS PROFESSIONAL SCHOLARSHIP, Sopron

2017, 2018

**BEST STUDENT OF BUSINESS INFORMATICS AT THE UNIVERSITY OF
SOPRON, Sopron**

2017, 2018, 2019, 2020

Technology stack	Experience (years)
Linux	3
Java	3
C#	4
Python	5
R	1
SQL Server	4
Cassandra	0.5
Apache, MySQL, PHP	2
SSIS, SSAS, Azure AS, SSRS	4
Azure (Databricks, Data Factory, Azure ML, etc.)	3
Power BI (cloud and on-prem)	4
Machine learning (numpy, pandas, tensorflow, pytorch, scikit-learn, MLOps, OpenCV, Google Colab, LLMs, NLP, langchain, RL, etc.)	4
Android development	1
Powershell	4
Git version controlling	5