Ádám Varkoly

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EDUCATION

Statistics and Data Science MSc	**Leuven, Belgium & Remote**
KU Leuven	*September 2021 – July 2025*

- Studied part-time between Sept. 2021 – Aug. 2023, worked full-time besides. Studied full-time after.
- A group project of ours about routing first responders to AEDs and patients was selected as the best by the professor, leading to continued collaboration with the university and a major Belgian hospital. We are currently working on academic publication.
- Thesis: *Fully Unsupervised Autoencoders for Early Disease Detection in Strawberry Leaves using Hyperspectral Images.*

Economic and Financial Mathematical Analysis BSc	**Budapest, Hungary**
Corvinus University of Budapest	*September 2016 – June 2020*

- Served as a teaching assistant for 2 years in the Corporate Finance and Financial Calculations courses. Helped 30+ students prepare for their exams by holding 2-3 extra seminars per semester. Supported professors with exam preparation and correction.
- 2nd place in a university-wide research competition (TDK) with a study of mine that I later turned into my thesis. Title: *The Predictability of MAX in the Chinese Market and the Impact of Publication on it.*
- 2nd place in a university-wide finance competition organized by one of the student associations.
- Back-to-back winner of Scholarship of Excellence of the MNB (Hungarian Central Bank), awarded for outstanding academic results and professional activities.

Erasmus Exchange – Computer Science Minor	**Rotterdam, Netherlands**
Erasmus University Rotterdam	*August 2019 – December 2019*

High School Diploma – Specialized Mathematics Program	**Budapest, Hungary**
Óbudai Árpád Gimnázium	*September 2010 – June 2016*

WORK EXPERIENCE

Cushman & Wakefield	**Budapest, Hungary**
Junior Data Engineer	*November 2022 – August 2023*

- Contributed to a security remediation project aimed at acquiring important Fortune 500 companies as new clients, by meeting their stricter data security requirements. Migrated Azure resources to a new region and subscription, and storage accounts from ADLS Gen1 to ADLS Gen2. Tested and fixed issues in the new environment.
- Helped create a set of stored procedures and tSQLt tests, streamlining the client onboarding process to CW's reporting platform. The new procedure reduced a day-long process (requiring code changes and approvals) to a self-service task lasting just minutes.
- Added features & fixed bugs in Azure Data Factory pipelines and SQL tables/views to accommodate client needs.

Business Intelligence Analyst	*February 2021 – October 2022*

- Investigated Power BI, SQL and data ingestion related issues by tracking data across multiple layers. Became the #1 go-to expert for troubleshooting due to my attention to detail and thoroughness. At peak, I handled 3x more issues per month than my colleagues, significantly reducing resolution time and developer escalations.
- Subject matter expert of the XSF (Experience per Square Foot) service line, a collective of dashboards analyzing survey data. Set up surveys in Qualtrics for 50+ clients, ensuring seamless integration to CW's reporting platform.
- Built and maintained Alteryx workflows for regular and ad-hoc data ingestions into CW's database.
- Communicated data requirements and reporting capabilities with 20+ account teams, clients, and consultants, managing expectations and ensuring accurate, timely insights.
- Tested around 15 new features and bug fixes in every release cycle (~1.5 months).
- Trained and mentored 3 new joiners.

Horváth & Partners	**Budapest, Hungary**
Advanced Analytics Trainee (Working Student)	*December 2018 – January 2021*

- Reduced manual reporting time by 90% by automating inventory analysis with R and Power BI.
- Implemented Apriori on 20M+ transactions to detect complementary and substitute products for a retail store.
- Optimized random forest models in R for customer segmentation, enabling targeted marketing strategies for a highly relevant customer group.
- Created dashboards in different BI tools (Power BI, Tableau, MicroStrategy), verified data in Excel and by using SQL queries.

SKILLS & INTERESTS

Skills: Python, R, SQL, Matlab, Git, Power BI, Alteryx, Microsoft Azure | English (C1), German (B2), Hungarian (native).

Interests: Deep Learning, NLP, computer vision, data analytics, financial markets, kayaking, soccer, padel, hiking.