Babak **Zade**

OPERATIONS RESEARCH ANALYST · DATA SCIENTIST/ANALYST · DATA-DRIVEN OPTIMIZATION METHODOLOGIST

✉ Babak.Zade@outlook.com | ☎ +32 465 424034 | ⚲ Belgium

❝ Optimization, Solution Methodology, Prediction Models, Data Visualization, Statistical Analysis ❞

Skills

DATA SCIENCE

Supervised:	Linear and Logistic Regression, Decision/Regression tree, Support Vector Machine, Neural Networks
Unsupervised:	K-Means clustering, Principal Component Analysis
Time series:	PACF, ACF, S-AR-I-MA

OPTIMIZATION
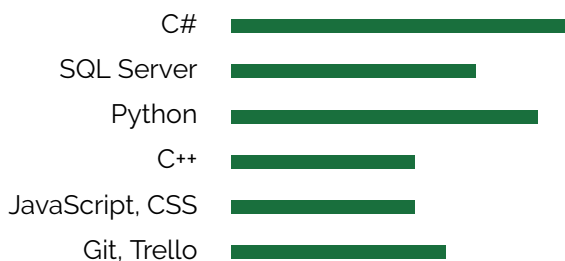
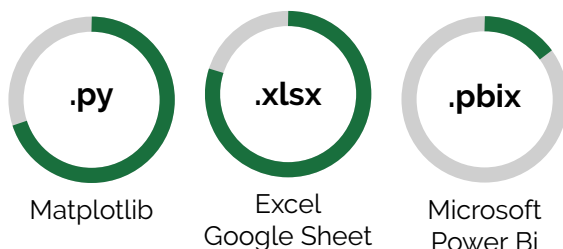|	
Exact:	Dynamic Programming, Hungarian Algorithm, Branch and Bound, Branch and Price
MetaHeuristic:	Genetic Algorithm, Simulated Annealing, Particle Swarm Optimization
Heuristic:	Variants of problem-specific Construction Heuristics based on different exact approaches
Library:	CPLEX, CP, GuRobi (embedded in C#, Python, C++)

Programming

- C#
- SQL Server
- Python
- C++
- JavaScript, CSS
- Git, Trello

Data visualization

.py Matplotlib

.xlsx Excel Google Sheet

.pbix Microsoft Power Bi

Languages

Farsi, Azerbijani	C2	mother tongue
English	C1	● ● ● ○
Turkish	B2	● ● ○ ○
Dutch, Arabic	B1	● ● ○ ○

Experience

2021–now — **Post Doctorate Researcher**
GHENT UNIVERSITY · Belgium ⚲
Fundamental research on the relation between different decision stages in the scheduling process for operational excellence.

2017–2021 — **Ph.D. Researcher**
GHENT UNIVERSITY · Belgium ⚲
Engineered a highly efficient solution technique in C# utilizing Dynamic Programming and the Hungarian algorithm.

2015–2017 — **System analyst and developer**
RASAM PARDAZ CO. · Freelance ⚲
Designed and co-developed a Material Requirements Planning (MRP) system for STAM Sanat Co., contributing to improved resource utilization and production coordination.

Degrees

2021 — **Besinuss Economics**
PH.D. · Ghent University 🏛
Majoured in Operations Research

2015 — **Industrial Engineering**
MSc. · KNT University 🏛
Majoured in Operations Research

2015 — **Industrial Engineering**
BSc. · OFU University 🏛
Majoured in Production Planning and Inventory Control

Publication

2022 — *The Scheduling of Medical Students at Ghent University.*, INFORMS Journal on Applied Analytics.

Reference

Broos Maenhout — *Professor at Ghent University, Academic advisor (2017-2024)*, Broos.Maenhout@ugent.be

Ehsan Sabaghian — *Data engineer chapter lead, Company.info, Colleague (2017-2021)*, E.sabaghian@gmail.com

Kunal Kumar — *Team Lead at KLM, Colleague (2017-2021)*, kunalkumar.pec@gmail.com

Foad Ghadimi — *Product owner at OMPartner, Colleague (2017-2021)*, foad.ghadimi@gmail.com