

Karaaslan Halil Bora

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Personal Profile

Bioinformatics professional with a Master's degree from Ghent University and a strong foundation in molecular biology and genetics from Bogazici University. Experienced programmer passionate about integrating coding, statistics, and biology to apply their knowledge in data science and bioinformatics. Proficient in Python, R, and machine learning, with hands-on experience in developing predictive models and applying causal inference.

Education

Ghent University

Ghent, Belgium

MSc in Bioinformatics

Sept 2021 - Sept 2024

- Specialized in systems biology; completed a thesis titled "Leveraging Probabilistic Programming in Causal Inference for Precision Medicine"
- Key Courses:** Bioinformatics Algorithms, Biostatistics, Applied High-throughput Analysis, Biological Databases, Applied Statistics, Statistical Genomics, Modelling of Biological Systems, Predictive Modelling

Bogazici University

Istanbul, Turkey

BSc in Molecular Biology and Genetics

Sept 2016 - Jun 2021

- Specialized in molecular biology and genetics.
- Completed courses in bioinformatics, biostatistics, and phylogenetic analysis.
- Enhanced Python programming skills through self-learning and a dedicated bioinformatics course.

University of Zurich

Zurich, Switzerland

Exchange Semester in Biology

Sept 2018 - Feb 2019

- Gained hands-on experience with bioinformatics tools in molecular evolution and ecological genomics laboratories.

Work Experience

Gastromind

Remote

Data Scientist

May 2024 - Dec 2024

- Developed a collaborative filtering recommendation algorithm.
- Managed and optimized complex relational databases using AirTable.
- Implemented efficient data sorting algorithms to improve data retrieval processes.
- Utilized Python extensively, working with tools like AirTable, GitHub, Azure, and Superset.

BioLizard

Ghent, Belgium

Bioinformatics Scientist Intern

Aug 2022 - Sept 2022

- Analyzed longitudinal treatment data as part of a bioinformatics team.
- Developed a clustering pipeline using Pandas and scikit-learn for longitudinal data analysis.
- Presented analytical findings to clients during weekly meetings.

Extracurricular Activities

Organisator

Istanbul, Turkey

Bogazici University Gastronomy and Degustation Club (BUGUSTO)

Sept 2017 - Jun 2020

- Served as Vice President for 1 year and Organizer for 2 years, coordinating tastings, workshops, meetings, interviews, and forums.

Skills

Programming	Python (Pandas, NumPy, Scikit-learn), R (limma, edgeR, ggplot2), Julia, SQL, HTML/CSS, Bash scripting.
Data Visualization	Matplotlib, Seaborn, Plotly, Superset.
Databases & Cloud	AirTable, Azure.
Miscellaneous	Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Microsoft Office Suite.
Soft Skills	Teamwork, Problem-Solving, Effective Communication, Presentation Skills, Adaptability, Time Management.
Languages	English (Professional), Turkish (Native), Dutch (Beginner)

References available upon request.