# **Berke Derin Berktay**

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### **Professional Profile**

Emerging software engineer and data scientist with roots in industrial engineering and computer engineering. Analyzer. Data interpreter. Experienced in preparing and interpreting data from a management engineering perspective. Driven by the power of data to shape and transform society. (I have been referenced by Read Abdel-Sater from Accenture Montreal).

### Education

### Master of Information (MI)

**2025** (*expected*)

Program: Human-Centred Data Science Faculty of Information, University of Toronto

GPA: 3.93

Representative Courses: Data Analytics: Introduction, Methods and Practical Approaches, Introduction to Statistics for Data Science, Programming for Data Science

#### Bachelor of Science (BSc)

2023

Double Major: Computer Éngineering, Industrial Engineering Faculty of Engineering, Koc University, Istanbul, Turkey Full-Ride State Scholarship (2019) Vehbi Koc Scholar (2021)

Representative Courses: Database Management Systems, Modeling and Simulation, Data Structures and Algorithms

# **Selected Projects**

#### **Multicriteria Disaster Management Model**

2023

Research Project (Koc University)

 Developed and tested a multiobjective resource allocation model for post-disaster scenarios in urban areas.

#### Segmentation of Truck Drivers Based on Performance

2022

Course Project (Indr491 - Industrial Engineering Design)

- Explored segmentation techniques of truck drivers based on performance metrics for Borusan Logistics Inc.
- Performed data cleaning, clustering with K-means, RFM, Gaussian mixture models, agglomerative clustering and PD cut.
- Applied various regression and neural network models.

# **Professional Experience**

Researcher 2022 - 2023

Koc University, Istanbul, Turkey

Researched disaster response management operations research models and explored methods to incorporate quantum integer programming.

#### Teaching Assistant

2020 - 2023

Koc University, Istanbul, Turkey

Held lectures for the Introduction to Programming with Python Course.

#### Software Engineering Intern

2022

eKare Inc., Fairfax, United States

- Created an OpenCV C software for wound detection during surgical operations at US hospitals.
- Assisted with front-end and back-end development for the company website.

#### **Data Science Intern**

2022

Arcelik Inc., Istanbul, Turkey

- Contributed to data visualization and manipulation projects on Qlik.
- Designed and implemented a predictive model with feature engineering.
- Presented findings from the model, leading to a 20% customer churn decrease.

### Software Engineering Intern

2022

Xtinge Inc., Istanbul, Turkey

Assisted with the design of augmented reality-incorporated mobile games for both Android and IOS on Unity 3D.

#### Software Engineering Club Board Member

2021-2022

Koc University, Istanbul, Turkey

Held weekly lectures on Django-React front-end and back-end development.

#### Software Engineering Intern

2021

InterTech Inc., Istanbul, Turkey

Contributed to projects with Jira, Jenkins, and financial data and systems, such as trading platforms, risk management, and payment processing systems.

# Additional Experience

Sailing Instructor

**Summer 2019** 

Port Credit Yacht Club, Mississauga, Canada

Sailing Instructor

**Summer 2018** 

Etobicoke Yacht Club, Toronto, Canada

## Skills and Qualifications

Java Flutter JS Unity C C# C++ Python Assembly R

Regression Analysis Classification Representation Learning Clustering

Turkish (native) French (novice) Competitive Sailing

Statistical Testing

React SQL **Neural Network Algorithms** Qlik Django

Microsoft Office FastAPI

LaTeX Scheme