# Davut Bayık

*Curriculum Vitae*

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## Education

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|---|---|
| 09/2020–<br>08/2022 | **Sabanci University (Full Scholarship)**, *Istanbul, Turkey*<br>MS – Data Science(w/thesis)<br>CGPA: 3.67/4.00 |
| 09/2016–<br>06/2020 | **Sabanci University**, *Istanbul, Turkey*<br>BS – Industrial Engineering<br>CGPA: 3.15/4.00<br>MIN – Finance<br>CGPA: 3.31/4.00 |
| 09/2015–<br>06/2016 | **Sabanci University School of Languages**, *Istanbul, Turkey*<br>The English Language Preparatory Program |
| 09/2011–<br>06/2015 | **Selçuklu Anatolian High School**, *Konya, Turkey*<br>CGPA: 86.24/100 |

## Work Experience

### PwC Türkiye, *Istanbul, Turkey*

**09/2022– Present** — **Associate**
*Management consulting for various projects*

- Analyzing and visualizing customer data to perform desired business consultation topic
- Creating interactive dashboards on PowerBI

### Sabanci University, *Istanbul, Turkey*

**09/2020– 08/2022** — **Teaching Assistant**
*Organizing weekly recitations, office hours and grading exam papers*

- IF100 Computational Approaches to Problem Solving
- CS210 Introduction to Data Science

**02/2019– 06/2020** — **Learning Assistant**
*Organizing weekly recitations and office hours*

- IE403 Quality Planning and Control

### Kariyer.net, *Istanbul, Turkey*

**07/2020– 09/2020** — **R&D Intern**
*Developing a hybrid recommendation system for Kariyer.net users*

- Using collaborative filtering to recommend jobs to users who applied same jobs
- Calculating the similarity between job descriptions and user profiles to recommend most similar jobs to users by using doc2vec algorithm and NLP approaches

### SabancıDX, *Istanbul, Turkey*

**10/2019– 07/2020** — **Part-time SAP Consultant**
*Part-time SAP Consultant for CarrefourSA personnel*

- Solving problems on any kind of transactions done by CarrefourSA personnel on SAP software during the weekends of senior year of bachelor's education

#### SabancıDX, *Istanbul, Turkey*

06/2019–
08/2019
**SAP Consultancy Intern**
*SAP Consultancy Intern for CarrefourSA retail personnel*

- Solving problems on any kind of transactions done by CarrefourSA retail personnel on SAP software

## Projects

2021-2022 **MS Thesis Project**, *Analyzing Twitter User complexities by investigating their behaviours*

Encoding Twitter user's last 200 tweet types into a string by using one character per tweet type to compress the patterns in the encoded string and using the compression rate as a complexity measure for each user. Analyzing the complexity differences of pre-labelled human and bot accounts

2021 **CS 543 – Computer Graphics and Visualization Course Project**, *Improvement Propositions for Deep Face Drawing*

Improving the output quality of famous Deep Face Drawing: Deep Face Images from Sketches model by giving it's output as an input to a StyleGAN variation, an image-to-image translation GAN algorithm to make realistic human faces from sketches more realistic

2021 **IE 525 – Operations Research and Data Mining Course Project**, *Twitter Bot Classification*

Using Twitter user's profile features, applied classification algorithms to classify them as human or bot. Used algorithms are: Random Forest Classifier, Extreme Gradient Boosting, Ada Boost Classifier, K-Neighbors Classifier, Decision Tree Classifier, Logistic Regression, SVM - Linear Kernel

2021 **CS 58002 – Network Science Course Project**, *Investigating Companies from Employee Point of View*

Investigated Forbes' best 200 companies' employee reviews between 2018 March-2021 March from Glassdoor.com to analyze companies in how traditional or modern they are using doc2vec and networkx Python packages

2020 **CS 512 – Machine Learning Course Project**, *Predict Future Sales*

Implementing various machine learning algorithms and forecasting techniques to predict next month sales number by using 33 months of previous sales data of a technology firm. The algorithms used are: Prophet API, SARIMA, XGBoost Regressor and Bidirectional LSTM network

2019-2020 **IE 492 – BS Graduation Project**, *CarrefourSA Offer Optimization*

As a part of tailormade discount sender application project for CarrefourSA retail, we analyzed regular users purchasing patterns by using market basket analysis

2019 **IE 402 – Integrated Manufacturing Systems Course Project**, *Designing and Manufacturing a Complex 3D Surface*

Manufacturing a Darth Vader mask on a CNC machines by designing on SolidCAM and Solidworks softwares

## Volunteer Experience

2016 **Sabanci University Civic Involvement Projects**, *Visiting Zümrüt Nursing Home*

Weekly visiting Zümrüt nursing home to spend time and do activities with elderly people lived who there

## Computer Skills

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| Programming | Python, PySpark, C++ |
| Frameworks | Pandas, Scikit-Learn, Keras-Tensorflow, PyTorch, Numpy, Networkx |
| Visualization | Matpotlib, Seaborn, PowerBI, think-cell |
| Database | SQL, Excel |
| Modelling | Alteryx, SolidWorks, SolidCAM, Rockwell Arena Simulation |
| Other | Microsoft Office Programs, Minitab, LaTeX, Jupyter Notebook, VS Code, Cplex Studio |

## Awards and Honours

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| 2019 Fall | **Sabanci University**, *Excel Education Certificate* |
| 2017–2019 | **Sabanci University**, *Honor List* |
| | Achieved for 3 semesters between Fall 2017 and Spring 2019 |

## Languages

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| Native | Turkish |
| Fluent | English |