# **Emre Yilmaz**

### Mathematician

Mathematician successful at operating in both self-directed and team-based capacities. Familiar with NumPy, TensorFlow, NLTK, and SpaCy on Python. Decisive problem solver, clear communicator, and analytical thinker. Detail-oriented with strong knowledge of deep learning.



### **Work History**

## 2021-08 – Data Scientist (Intern)

ROKIN GmbH, Munich, Bavaria

Text analysis and the application of Natural Language Processing (NLP).

Analysis, optimization, and documentation of the results.

Comparison and evaluation different strategies to extract keywords and compare them.

Comparing different strategies primarily KeyBERT, YAKE!, and RAKE using SpaCy and NLTK to extract keywords.

### **Education**

## 2018-09 – Master of Science: International Mathematics

Julius-Maximilians-University Würzburg - Würzburg

Relevant Coursework Completed: Mathematical Modelling & Deep Learning Modelling & Insurance Mathematics

Research Project: Goal Oriented Chatbot

Thesis: Irrationality Proofs of Zeta Values Using Modular Forms under supervision of J. Steuding (1.3/5.0)

### 2013-01 - Bachelor of Science: Mathematics

2018-01

Izmir Institute of Technology - Izmir, Turkey

Class Rank: 4

Thesis: Oscillatory Integrals of Rational Function

Study Abroad: Poland, Mathematics and Computer Science



### **Contact**

#### Address

Erlangen, Bayern, 91052

#### **Phone**

+4915223431128

### E-mail

assademre@gmail.com

#### LinkedIn

linkedin.com/in/assademre/

#### **GitHub**

github.com/assademre

#### **Portfolio**

assademre.github.io/



### **Skills**

#### Teamwork

Excellent

Organization and Time

management

Excellent

Critical thinking

### 2016-09 - Erasmus+: Mathematics and Computer Science

2017-06

Gdansk University of Technology - Gdansk, Poland

Received Erasmus+ grant Job-related courses: SQL

Member of ESN



Turkish

Native

Q

### Certifications

2019-10

Coursera - Neural Networks and Deep Learning Credential

ID:XJNRVQD3ZSKK

2017-06 European Union Erasmus+ Grant

Advanced

German

**English** 

Basic



### **Software**

- Python: NLTK and SpaCy for tokenizing, stemming, Named Entity Recognition (NER), and topic segmentation.
  Keras with TensorFlow for building basic level of neural networks. Advanced level of NumPy and basic level of Pandas.
- SQL: Where clauses, left/right, inner/outer joins, normalization, indexing.



### **Software**

Python

Advanced

SQL

Basic

Tableau



## **Hobbies and Accomplishments**

Basic

- Knitting: I have started knitting after I read an article about the relation between Mathematics and knitting. Searching for new fabrics and models are what I do in my free time.
- Building a goal-oriented chatbot using a feed-forward model and a suicide detection trained with the data from Reddit and Twitter.
- Creating text-based Telegram games using Telebot package in Python.