

Koralp Catalasakal

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in kcatalsakal 📺 koralpc

Education

K.U. Leuven

Master of Science in Computer Science / A.I.

Leuven, BE

Sept 2018 - Jun 2020

- Graduated cum laude
- **Coursework** : Data Mining, NLP, Evolutionary computing, Computer Vision
- **Thesis Topic** : Machine Learning in Shapley Space
 - Best thesis award by Colruyt Group BE

Bilkent University

Bachelor of Science in Electrical and Electronics Engineering

Ankara, TR

Sept 2014 - June 2018

- Graduated magna cum laude
- **Coursework** : Algorithms, Data Structures, Neural Networks, Statistics & Data Analysis
- Received full scholarship for ranking 354/2,000,000 in Undergraduate Placement Examination.

Case Western Reserve University

Exchange program in Electrical and Computer Engineering

Cleveland, OH, USA

Jan 2017 - May 2017

Experience

Invitae

Software Developer / Machine Learning

Leuven, BE

Sept 2020 - Present

- Designed and implemented an Object detection & OCR based PDF text extraction pipeline for structured information extraction from scientific publication
- Implemented and maintained the back-end structure of NLP driven web editor for entity mining.
 - Took part in the design of main API service and the interactions with micro-services (Parsing service, Entity miner, DB, data ingestion service)
- Implemented a Tensorflow based genome sequence classification library
 - Pre-trained masked language models for genome sequence classification tasks over GCP.

Humain NV

Entrepreneurship Practice

Leuven, BE

Oct 2019 - May 2020

- Trained and deployed a custom Named Entity Recognition model for recognizing AI related terms in news articles
- Created a self-updating website layout with D3.js for updating knowledge-base of system in each user search

Nokia Bell Labs

Summer Intern / Machine Learning

Antwerpen, BE

July 2019 - Aug 2019

- Implemented an iterative local search solution for LSTM based time-series forecasting in memory access data.

Aselsan Inc.

Engineering Intern

Ankara, TR

June 2017 - July 2017

- Designed a simulation model of an e-vehicle on MATLAB
- Analyzed real-life bus route data from the municipality for simulation and testing.

Projects

For more, check my github or personal website!

Personal Webpage

- Tech Stack : React, ExpressJS
- Coded my personal webpage from scratch using React front-end and express back-end.

Web Deployed Chatbot

- Tech Stack : Python, Flask, Docker, Amazon EC2
- Implemented a LSTM based simple Chatbot model for remote web deployment on an EC2 instance

Visual Question Answering

- Tech Stack : Python, Keras
- Implemented a RNN + CNN based multimodal architecture to be used in visual question answering task

Geographic Tweet Visualization

- Tech Stack: Python, MongoDB
- Analyzed tweets related to a certain topic and demonstrated a geographic visualization of tweets over location

Skills

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|--|-------------------------------------|
| ○ Machine Learning: Tensorflow, Py-torch(beginner), Spacy, Sklearn | ○ SQL, NoSQL, Cloud (Datastore, S3) |
| ○ Data Analysis/Visualization | ○ Source/Version Control - Git |
| ○ Software Development - Python, Javascript, React | ○ Linux, Docker, K8s |
| | ○ GCP, AWS |

Extracurricular

Bilkent University

Undergraduate Teaching Assistant

Ankara, TR

Jan 2016- May 2016

- Supervised and helped a group of 8-10 students in object oriented programming exercises.
- Practiced code debugging and grading of individual project submissions

Bilkent University

Voluntary Teacher

Ankara, TR

Jan 2016- May 2016

- Involved in voluntary work with social responsibility organization in the campus.
- Gave lectures to students of 4-5 people about high-school mathematics and physics.