

Esma DZAKMIC

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EDUCATION

2019 B.Sc Biomedical Engineering, Erciyes University Faculty of Engineering (Kayseri-Turkey)

EXPERIENCE

- | | |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Present
September 2019 | Data Science Intern, ROCHE DIAGNOSTICS GMBH, Munich Greater Area, Germany <ul style="list-style-type: none">> Pre-processing and mining data of various types and sources to look for meaningful insights (time-series, image, categorical data)> Statistical Data Analysis to support claims and present results of a project to the authorities> Data visualization and translation for decision making> Implementing Machine learning to cluster/segment images to extract information from the region of interest <div>R SQL Python MySQL Relational Databases Image Segmentation</div> |
| September 2019
July 2019 | Medical Engineer Intern , OMNIA-MEDIC, Zenica, Bosnia and Herzegovina <ul style="list-style-type: none">> Learning Internship where I observed medical device servicing> Helping Sales and Marketing team, communicating with potential associates> Consultancy on various engineering topics such as technical documentation and properties of a device <div>Team Work Flexibility Communication</div> |

PROJECTS

WEB SCRAPING

ONGOING PROJECT

github.com/annaesma/web-scraper

An automated Python script to run daily and get some information from multiple links on a website, then store the data in MySQL database.

Python Scrapy

STATIC WEBSITE DEVELOPMENT

github.com/annaesma/annaesma.github.io

Multiple- page website built in HTML and CSS to act as an online resume

HTML5 CSS

RESPIRATORY SOUNDS CLASSIFICATION

JANUARY 2019- JUNE 2019

github.com/annaesma/classification-of-lung-sounds

This project was aimed to present a simple approach to a problem of teaching the machine to distinguish between healthy and pathological lung sounds. The sound files were first segmented into 5 second files. Sampling rate conversion and heart sound filtering was performed before feeding the spectrograms into the Convolutional Neural Network Classifier.

Matlab Digital Signal Processing Classification Artificial Neural Networks

SKILLS

Programming	SQL,R,Python,HTML, CSS
Data	Data pipelines, Web scraping, Data wrangling, Data visualization, Applied machine learning(clustering, classification, regression), Statistics fundamentals
Database Management Systems	MySQL, PostgreSQL

LANGUAGES

Bosnian	●	●	●	●	●
English	●	●	●	●	●
Turkish	●	●	●	●	●
Spanish	●	●	●	○	○
German	●	●	○	○	○

TEACHING AND MENTORING

December 2018	English Language Instructor, WAIJIAOYI LANGUAGE SCHOOL, Online
June 2018	
	<ul style="list-style-type: none">› Conducting group classes for children in Chinese rural areas› Introducing young learners to foreign cultures and bringing them closer to the global environment by helping them improve their language and social skills
2018	Volunteer, DAMLA PROJECT, Kayseri-Turkey
2016	
	<ul style="list-style-type: none">› Helping in organization of workshops, games, environment cleaning projects› Refugee children immersion into turkish society by helping them learn the language while playing