

Selen Karakaya MSc, BSc(Hons)

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CAREER OBJECTIVE

I have been working on applied machine learning (ML) and deep learning (DL) since 2019 and I have been involved in multidisciplinary research groups consisting of physicists, biomedical engineers, clinicians, and geoscientists.

Now, I am seeking an opportunity to apply knowledge and gain practical experience as a Front End Developer. Passionate about learning new technologies and delivering high quality software. I would like to take part in your team to improve the performance and sustainability by working on strong problem solving and team collaboration skills.

EDUCATION

MSc, Yildiz Technical University, Istanbul, Turkey, **2018-2021**

Department of Remote Sensing and Geographic Information Systems (GIS),

Overall GPA: 3.79/4.00

BSc, Selcuk University (SU), Konya, Turkey, **2013-2017**

Department of Geomatic Engineering,

Overall GPA: 3.14/4.00, one of top students at the department

Internship, Bruno Kessler Foundation, Trento, Italy, **16 August- 16 Sep 2016**

CERTIFICATION

- Modern HTML & CSS From The Beginning (Including Sass) & Modern JavaScript From The Beginning 2.0 (2024) Certificate, *Issued December 08, 2023 by Udemy*
- CAD101EN: Introduction to Web Development with HTML5, CSS3 and JavaScript Certificate, *Issued January 23, 2024 by IBM*
- HarvardX CS50P: CS50's Introduction to Programming with Python Verified Certificate, *Issued March 20, 2023*

PORTFOLIOS & PROJECTS

PERSONAL PROJECT

Developed web applications using technologies such as HTML, CSS, and JavaScript. Built responsive and accessible websites using Bootstrap and CSS, resulting in improved user engagement and experience. Developed web applications using version control tools such as Git.

A website for pilates & yoga studio

- This project improves my understanding of responsive web design, including media queries, flexbox, and grid layout.
- Project enhances skills in creating booking, payment, register and log in pages. It also gains insights into the principles of persuasive design and effective use of color schemes.
- Session storage is used for booked class on classes page transfer to shopping card page.

❖ **Longevity: Track your daily calories & exercise**

- This project enhances skills in working with APIs, handling asynchronous data. It also offers experience in integrating third-party APIs into your applications.
- The data will be available even if the user closes their browser window or refreshes the page via their local storage.
- You can add the calories of what you eat or search for the calories of foods by Nutrition API. It also offers the option to calculate calories of your whole recipe and control portion sizes.

❖ **Monthly Hobbies Planner: Manage your month**

- Purpose of this project is dynamic content rendering and building interactive user interfaces. You may manage your goals, important days, hobbies, etc.
- It refines skills in building complex layouts and optimizing user experiences for different screen sizes.

COLLABORATIVE PROJECT

❖ Segmentation of liver and brain lesions by deep learning approach from medical images, **11/2018-04/2019**

- Design and label of datasets
- Prepare code scripts for divide medical images

❖ Investigation of the best band combination for coastline extraction with convolutional neural network, **08/2019-05/2020**

- Mentor of bachelor degree thesis
- Code scripts for prepare the band combination on Python
- Assist to prepare convolutional neural network

❖ Coastline extraction using support vector machine from Sentinel-2 Imagery **01/2020-05/2021**

- Mentor of bachelor degree thesis
- Teach Sentinel-2 Imagery and machine learning algorithms

❖ Building extraction from high resolution aerial photos by deep learning **01/2021-04/2022**

- Assist to master's degree thesis
- Evaluate to Pix2pix network on aerial photos
- Performance measurement of algorithms

SCHOLARLY PUBLICATIONS

KARAGÖL, Sennur et al. "Shoreline Segmentation from SENTINEL-2 Imagery by Transfer Learning". Turkish Journal of Remote Sensing, c. 3, sy. 1, 2021, ss. 1-7, [view](#).

SKILLS

- | | |
|---|------------------------------------|
| • Image & Point Cloud Processing | • Semantic Segmentation |
| • Machine Learning & Deep Learning | • Data Collection & Remote Sensing |
| • Python(Numpy,Keras,Tensorflow,Pandas,Matplotlib,Seaborn,OpenCV) | • HTML, CSS,Bootstrap |
| • JavaScript, Git | • SASS,SCSS |

WORK EXPERIENCE

- **Research Assistant**, Yildiz Technical University, Istanbul, Turkey, 2020-2021
- **Geomatics Engineer**, Emi Group Information Technologies Inc., Istanbul, Turkey, 2018-2019
- **Geomatics Engineer**, Ordu City Council, Ordu, Turkey, 2017-2018