

# GÖKSU TURAÇ

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## Education

### Eskisehir Technical University

*Master's Degree in Computer Engineering*

Sep. 2024 – Current

*Eskisehir, Turkey*

### Eskisehir Technical University

*Minor in Artificial Intelligence and Machine Learning*

Feb. 2021 – Jan 2024

*Eskisehir, Turkey*

### Eskisehir Technical University

*Bachelor of Science in Computer Engineering*

Sep. 2019 – Jun 2024

*Eskisehir, Turkey*

## Experience

### AI in Healthcare Lab

*Research Student, Artificial Intelligence and Machine Learning*

- Conducted research on addressing class imbalance.

Oct 2024 – Current

*Eskisehir, Turkey*

### AI in Healthcare Lab (Thesis Project)

*Lab Student, Artificial Intelligence and Machine Learning*

- The thesis project was developed here.
- Theoretical and practical experience was gained in machine learning and image analysis.

Sep 2023 – Jun 2024

*Eskisehir, Turkey*

### Visea Innovative Information Technologies

*Software Engineer Intern, Computer Vision*

- In the projects, image processing techniques were utilized in the projects.
- The VGG16 model within PyTorch was utilized in the Emotion Recognition project.
- Object detection was conducted using YOLOv7 and YOLOv8 algorithms.
- Segmentation was performed using U-Net architecture with ResNet.

Feb 2024 – Apr 2024

*Eskisehir, Turkey*

### Drupart R&D

*Software Engineer Intern, Web Development*

- In the project, the UI/UX design part was done using Figma. The web page, designed in Figma, was coded with adherence to SEO rules and utilizing Bootstrap 5.3.
- Git was employed for source code review, code sharing, branching structure, and version control management.

Jul 2023 – Jul 2023

*Istanbul, Turkey*

## Technical Skills

**Languages:** Python, Java, HTML/CSS, SQL

**Technologies/Frameworks:** Scikit-learn, OpenCV, Tensorflow, Keras, PyTorch, Numpy, Pandas, Matplotlib, Seaborn

## Projects

### Eye Disease Detection, Severity Prediction, Localization with Focal Loss and Grad-CAM

Thesis Project

- The system has three main components: (i) The eye disease prediction model is trained with a dataset containing fundus images with six different diseases. (ii) The diabetic retinopathy severity prediction model is trained with fundus images obtained from patients with diabetic retinopathy labeled with the stage of the disease. (iii) The system locates the regions related to eye diseases using the Grad-CAM.
- The project has been selected as the winner among 31 groups at the 17th Project Fair and Competition held at Eskisehir Technical University on May 28, 2024.
- This research is presented at Engineering Sciences and Research Student Congress, Ankara, Atılım University, 2024.
- Models Used: MobileNet | ResNet50 | InceptionV3 | VGG16
- Libraries Used: Tensorflow | Keras | PIL | os | OpenCV | Pandas | NumPy | Sklearn | Matplotlib | Seaborn | Gradio

### Digit Recognizer | Python, Jupyter Notebook

Project Link

- Accuracy Score: 98 | Project to determine the handwritten number in the dataset on Kaggle.
- Libraries Used: Pandas | NumPy | Sklearn | Matplotlib | Seaborn | Tensorflow

### Analysis Customer Loss | Python, Jupyter Notebook

Project Link

- Accuracy Score: 81.2 | Project to determine the handwritten number in the dataset on Kaggle.
- Libraries Used: Pandas | NumPy | Sklearn | Matplotlib | Seaborn | Tensorflow

## Relevant Coursework

- Artificial Intelligence
- Machine Learning
- Data Mining
- Deep Learning
- Pattern Recognition
- Image Processing

## Data Science / Reference

### ASST. PROF. DR. SEMA CANDEMİR

AI in Healthcare Lab

*Eskisehir Technical University*

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