Göksu Turaç

📞 +90 542 104 5436   Eskisehir/Türkiye

✉ turacgoksu@gmail.com   in linkedin.com/in/turacgoksu/   ○ github.com/goksuturac   🌐 goksuturac.com

Education

Eskisehir Technical University	**Feb. 2021 – Jan 2024**
Minor in Artificial Intelligence and Machine Learning	*Eskisehir, Turkey*
Eskisehir Technical University	**Sep. 2019 – Jun 2024**
Bachelor of Science in Computer Engineering	*Eskisehir, Turkey*

Experience

AI in Healthcare Lab (Thesis Project) — **Sep 2023 – Jun 2024**
Lab Student, Artificial Intelligence and Machine Learning — *Eskisehir, Turkey*
- The thesis project was developed here.
- Theoretical and practical experience was gained in machine learning and image analysis.

Visea Innovative Information Technologies — **Feb 2024 – Apr 2024**
Software Engineer Intern, Computer Vision — *Eskisehir, Turkey*
- 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.

Drupart R&D — **Jul 2023 – Jul 2023**
Software Engineer Intern, Web Development — *Istanbul, Turkey*
- 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.

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
- Contact: +90 (222) 213 81 25 | Internal School Extension: 8114 | semacandemir@eskisehir.edu.tr