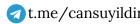
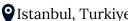


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## Professional Expertience



Insight SFI Research Centre, University College Dublin 2023 Aug - 2023 Oct

Machine Learning Intern

Dublin.Ireland

Successfully developed and optimized back-end components for geological fault detection using Python, SQL, Pandas, Scikitlearn, and PyTorch, reducing processing time by 15% and significantly improving system performance. I automated data processing workflows, increasing operational efficiency by 20%.

I developed interactive dashboards using **Power BI** and **Tableau**, enabling stakeholders to make data-driven decisions. I created NLP models and delivered innovative AI solutions using large language models (LLMs). Additionally, I created comprehensive visualizations with Matplotlib. My expertise in Python, SQL, Spark, Docker, and cloud platforms (AWS, Azure) saved two weeks and enhanced team performance. The project I contributed to is published in IEEE ACCESS, DOI: ACCESS.2024.3433612.

IBM

· Istanbul, Turkiye 2023 Jun - 2023 Jul Data Science & AI Intern

Implemented mathematical optimization techniques and contributed to CRM projects during my internship. I worked with large datasets on IBM Cloud, applying machine learning and deep learning techniques like regression, classification, CNN, and RNN. I used Python, Scikit-learn, TensorFlow, and PyTorch to optimize data workflows and build models. Additionally, I leveraged Spark and Kafka for data processing and model training.

I deployed models to cloud platforms like IBM Cloud and AWS, using **Docker** and **Kubernetes** for production environments. I also developed APIs with FastAPI and integrated NLP and computer vision technologies, including BERT and YOLO. My work included visualizing results with Matplotlib, Seaborn, and Plotly for clear communication with stakeholders.

## Organization & Projects



#### Appcircle

• Remote, Turkiye 2023 Jan - 2023 Jun

React Workshop, organized from Appcircle



#### Global Al Hub

- Remote, Turkiye 2022 Mar - 2022 Sep
- Al Summer Camp Bootcamp, organized from Global Al Hub and

## **Highlighted Projects**

#### **Clothing Classification with Fashion-MNIST**

Jan 2024 - Jun 2024 Supervisor: Prof. Turgay Aydogan

Developed a machine learning model for clothing classification using the Fashion-MNIST dataset. Tested two model architectures, SimpleCNNModel and ResNet18. Achieved a high accuracy rate with the model. Implemented using Python, TensorFlow, Keras, and PyTorch

#### **Spotify Clone Project Using React**

Developed a Spotify clone with React in a collaborative team setting. Implemented state management with Redux and optimized data fetching using Axios API for better performance.

#### **Cat Dog Classification Transfer Learning**

Contributed to the Global AI HUB Summer Camp'22 group project focused on transfer learning using the VGG16 model applied to the wellknown cats-dogs dataset. The project aimed to leverage pre-trained neural network architectures to achieve high accuracy in distinguishing between cat and dog images

#### **Health Insurance Analysis**

Health Insurance Analysis, Collaborated on a team project at the Global AI HUB Summer Camp'22, specializing in predictive modeling and data-driven insights. Contributed to data preprocessing, feature engineering, and model selection using Python tools like scikit-learn and TensorFlow. Presented findings to optimize decision-making in health insurance analytics

#### Iris Segmentation with Mediapipe

A Python project for real-time object segmentation from video streams, featuring customizable tools for precise segmentation. Utilizes Mediapipe's modular framework to integrate and customize pre-built components. Includes a pre-processing pipeline for video enhancement and segmentation optimization, alongside a segmentation pipeline using a fine-tuned, pre-trained model.

# Computer Skills

- Pvthon, R

- AWS, Azure, GCP
- · Advanced Excel

- MATLAB
- SQL (MySQL, PLSQL)
- Power BI, Tableau
- Xcode, Visual Studio

### Education



Suleyman Demirel University

Bachelor of Science in Computer Engineering

2020 Aug - 2024 Jun Isparta, Turkiye

### Languages

- English, Fluent in spoken and written communication
- German, Entry-level proficiency
- Turkish, Native

## References

- Bengü Sanem Pazvant, Client Engineering Leader at IBM
- Ruihai Dong, Lecturer at University College Dublin (UCD)
- Turgay Aydoğan, Lecturer at Suleyman Demirel University