EGE HOSGUNGOR

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*Passionate AI Research Engineer with Lifelong Learning Commitment*

**EXPERIENCE**

Senior Data Scientist **Ocado Technology** 2022 – Present

* Building state-of-the-art ML systems for Ocado’s robotic operations.
* Led Wireless Signal Forecasting Project as a Technical Lead: utilized machine learning algorithms and unique signal data from our bots to forecast wireless network coverage and foresee complications beforehand in our CFC designs, reduced risk of losing millions of $ per CFC.
* Created A/B tests to optimised several metric related to bots using the needed number of bots /bot hours for these tests.

Reinforcement Learning Engineer **Dcipher Analytics** 2020 – 2022

* Implemented RL algorithms / environments for NLP domain: Automated Sentiment Analysis on stock markets **Gym, TF, Ray and GCP.**
* Led an end-to-end multi class, multilabel machine learning project for Avalanche Risk Prediction funded by TUBITAK.

Software Engineer ***KARMA Lab Immersive Technologies*** 2018 – 2019

* Coordinated KARMA Lab’s [3 VR/AR/MR projects:](https://karma.ku.edu.tr/en/projects) KU-TWIN, Isles of Emotion, Psychosis
* Led a group of 15 people from different backgrounds including professionals, PhDs, and grad students.
* Worked on creating a simulation/ **“Digital Twin”** of campus for VR by utilizing **photogrammetry** techniques and Unity.

**EDUCATION**

MSc Advanced Computer Science **University of Sussex** 2019 – 2020

* Dissertation: "[Pandemic Simulation with Reinforcement Learning](https://github.com/Hsgngr/Pandemic_Simulation)"
* Area Courses: Machine Learning/ Engineering Reliable and Scalable Project / E-Commerce Systems

### Distinction, First Class Honor (4.0 GPA)

BSc Mechanical Engineering **Koç University** 2014 – 2019

* Senior Project: "A Haptic Feedback Glove for Virtual Reality" **Best Engineering Project Award.**
* Area Courses: Rocket Propulsion / Finite Element Analysis /Corporate Dynamics for Engineers

**PROJECTS**

* [SMSBOTU](https://smsbotu.com/) - SaaS product that brings internet access via SMS for the people who don’t have reliable internet connection but still in the GSM coverage. Currently 300+ users and monthly 20 beta testers.

**(Langchain, OpenAI API, Fastapi, GCP Cloud Run, Firebase, Nextjs, Tailwind)**

* Competed in [5 different Kaggle Competitions](https://hsgngr.github.io/hosgungor/%23projects) (details can be found in my portfolio).

### (Numpy, Pandas, Sklearn, XgBoost, LightGBM, Keras, Torch, Tensorflow Matplotlib, Seaborn)

* [Academic Article Classification (NLP Project)](https://hsgngr.github.io/hosgungor/papers/REPORT.pdf)

### (Tensorflow, Fasttext, Bert, Bart, Glove, Transformers, Huggingface)

* [Pandemic Simulation with Deep Reinforcement Learning.](https://github.com/Hsgngr/Pandemic_Simulation) Training agents in a real-time pandemic outbreak to measure the success rate of survival strategies by using RL techniques. Showcased in Unity’s Webpage.

### (TF-Agents, Gym, TensorFlow, AWS EC2, Unity)

* [A Vibrotactile Hand Interface for VR](https://eng.ku.edu.tr/en/news/college-engineering2018-2019senior-design-projects/) was the final year awarded as the **Best Engineering Project Class of 2018-2019 Award**. It was presented in the biggest VR event of Europe **VRDays Exhibition** in Amsterdam afterwards. (**Computer Vision, Hand-Tracking, Arduino, C, 3D printing, Hardware Design)**

Work Eligibility**:** Eligible to work in the UK and Turkey.