**FURKAN EGE HOSGUNGOR**

Email: [hsgngr@gmail.com](mailto:hsgngr@gmail.com) GitHub: <https://github.com/Hsgngr>

Portfolio: <https://hsgngr.github.io/hosgungor/> LinkedIn: <https://www.linkedin.com/in/hosgungor/>

Tel: +44 730 722 66 25 /Address: 17 Villiers Gardens E20 1GW, London, UK

An Ambitious Life-Long AI Learner & Research Engineer

**EDUCATION**

### University of Sussex MSc Advanced Computer Science Sep 2019 – Oct 2020

* [Pandemic Simulation with Reinforcement Learning](https://github.com/Hsgngr/Pandemic_Simulation), dissertation project for master’s degree
* Area Courses: Machine Learning/ Engineering Reliable and Scalable Project / E-Business and E-Commerce Systems
* GPA: **Distinction 1:1**

### Koç University BSc Mechanical Engineering Sep 2014 – June 2019

* Senior year project: A Haptic Feedback Glove for Virtual Reality. Got **A+ and Best Senior Project Award**.
* Area Courses: Rocket Propulsion / Finite Elements Analysis /Machine Design /Corporate Dynamics for Engineers

**EXPERIENCE**

Data Scientist & RL Engineer Dcipher Analytics Jan 2021 – Present

* Building Reinforcement Learning Environments for Stock Market with **Gym, TF, Torch and Ray**
* Creating end-to-end **NLP** solutions in Finance Sector
* Using **Transformers** for Sentiment Analysis, training them in **GCP**.
* **Time Series Analysis** for Price Data

Data Scientist *Macerita* March 2020 – Jan 2021

* A multiclass multilabel classification Avalanche Risk Prediction model which is funded by TUBITAK
* Achieved **87% accuracy** for high and medium levels of avalanche risks in the Region of Aladaglar, Turkey

Lead Software Engineer *KARMA Lab Immersive Technologies* Jan 2019 – Sep 2019

* Coordinated KARMA Lab’s [3 VR/AR/MR projects](https://karma.ku.edu.tr/en/projects): KU-TWIN, Isles of Emotion, Psychosis
* Challenged by a group of 15 people from different backgrounds including professionals, PhDs and grad students.
* Gained expertise at creating projects with **Arduino**, **Leap Motion** and **Infrared Cameras** for **Computer Vision**

### Software Engineer *KUAR Research Center for Creative Industries* Oct 2018 – Sep 2019

* Achieved to create a **“Digital Twin”** of campus for VR by utilizing **photogrammetry** techniques and Unity.
* Obtained a deep care about developing, releasing and maintaining **high quality code**.
* Learned the importance of version control with **large-scale simulations up to 1TB**.

**PROJECTS**

* An Autonomous AI model which utilizes reinforcement learning techniques and best practices of traders to maximize profits gained from the **stock market** and other financial instruments (currently in progress)

(**Ray, Tune, Torch, Gym, Stable-Baselines, Google Cloud Platform and loads of NLP libaries)**

* Competed in [5 different Kaggle Competitions](https://hsgngr.github.io/hosgungor/#projects) (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.

(**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 final year awarded as the **Best Engineering Project Class of 2018-2019 Award**. it is presented in the biggest VR event of Europe **VRDays Exhibition** on Amsterdam afterwards.

(**Arduino, C, Leap Motion, HTC Vive, 3D printing, Hardware Design, Computer Vision, Hand-Tracking)**

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