FURKAN EGE HOSGUNGOR

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EDUCATION

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

- Pandemic Simulation with Reinforcement Learning, 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 & ML Engineer Dcipher Analytics Jan 2021 – Present

- Producing end-to-end NLP models for sentiment analysis of social media in Finance Sector
- Creating Time-Series Analysis Features for Dcipher Analytics Software

Data Scientist *Macerita* March 2020 – Jan 2021

- An Avalanche Risk Prediction Model which is funded by the Scientific and Technological Research Council of Turkey.
- Created a multiclass classification model with **TensorFlow**, **Python** and 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 – Jun 2019

- Coordinated KARMA Lab's 3 VR/AR/MR 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 – Jun 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**.

Data Science Intern *BSH Hausgeräte* July 2018 – Sep 2018

- Focused on creating a performance report at Cooling Systems-Functional R&D Center of Refrigeration Department
- Achieved 5%-time efficiency by optimizing the manufacturing process of refrigerators cover hinges.

Summer Intern *Ford Otosan* May 2017 – Sep 2017

- Worked in "Engine and Power Train Manufacturing" Department R&D in İnönü Truck Factory.
- Reverse engineered the competitors' truck engines and compared the results with Ford Ecotorq Truck Engine.

PROJECTS

- Academic Article Classification (NLP Project) The goal of the project was to correctly classify academic article's label as "Chemistry" or "Material Science" by their title and abstract. **(Tensorflow, Fasttext, Bert, Glove)**
- Pandemic Simulation with Deep Reinforcement Learning. The project is about training agents to make them learn survival strategies in an epidemic outbreak such as social distancing and self-quarantine. (**TensorFlow, AWS EC2, Unity**)
- Fraud Detection Challenge The goal of the project was to correctly classify customer's label as "fraudulent" or not. (**Lgbm, RandomForest, Xgboost**)
- A Binary Image Classification Project in Postgraduate Machine Learning Module. Imbalance, unlabeled data, domain adaptation and confidence annotations were some of the challenges that have been faced. **Finished at the top** of the leaderboard with 82% accuracy. (**Python, Sklearn, Pandas, Numpy, Dask**)
- A Vibrotactile Hand Interface for VR was final year project of bachelor's degree and got 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)**

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