Ege Hosgungor

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Senior Data Scientist

Portfolio: hosgungor.com/
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TECHNICAL SKILLS

Programming Languages	Python, SQL, JavaScript, TypeScript
Modelling Techniques	Machine Learning, Deep Learning, Reinforcement Learning, Fine-Tuning, Recommendation Systems
Cloud & Dev Tools	GCP, BigQuery, AWS, Airflow, Git, Poetry
Toolkits & Libraries	Sklearn, XGBoost, TensorFlow, PyTorch, Keras, LangChain, TF-Agents, Ray, SimPy, FastAPI
Statistical Methods	A/B Testing, Causal Inference, Experimental Design, Hypothesis Testing, Data-Driven Development
Applied Domains	LLMs (Large Language Models), Simulation, Computer Vision, Anomaly Detection, Optimization
Hardware & Prototyping	Arduino, 3D Printing, CAD (Fusion 360), Hardware Design, Animatronics, Robotics

TECHNICAL EXPERIENCE

Senior Data Scientist — Jan 2022 — Present
Ocado Technology — *London, UK*

- Developing Ocado Data's highest-priority optimisation platform for daily Customer Fulfilment Centre (CFC) operations; early-2025 pilots indicate £1 billion in savings by 2027.
- Collaborating with stakeholders in 14 countries, including Kroger and on-site CFC managers, to embed optimisation recommendations into daily workflows.
- Built an early-warning framework that combines rolling A/B tests with causal inference to evaluate new bot firmware, cutting regression-detection time on average from 2 weeks to 5 days and guiding rollout decisions.
- Created a crash-investigation pipeline that combines SQL analytics, YOLO/RT-DETR Computer Vision, and an LLM classifier, halving root-cause analysis time.
- Deployed an XGBoost-based wireless-signal forecasting service via Airflow to predict coverage gaps and cut robot downtime.

Machine Learning Engineer — Sep 2020 — Dec 2021
Dcipher Analytics — *Stockholm, Sweden*

- Trained RL agents and built data pipelines and simulation environments to model investment strategies in financial markets, with a focus on sentiment-analysis-driven decision-making.
- Led an end-to-end machine learning project to predict financial risk across emerging tech sectors using multi-label classification on time series and tabular data.
- Collaborated with data analysts and domain experts to align model outputs with investment insights and strategic objectives.

Software Engineer Intern — Jan 2019 — Jan 2020
Koç Üniversitesi KARMA XR Lab — *Istanbul, Turkey*

- Joined KARMA Lab as a Research Assistant and was later promoted to full-time Software Engineer on a flagship simulation project.
- Led a cross-functional team of 15 (artists, professionals, PhDs) to create a high-fidelity "Digital Twin" of Koç University for VR using Unity and photogrammetry.

EDUCATION

Master of Science in Advanced Computer Science, *University of Sussex — Distinction, First Class Honour*   2019-2020

- Dissertation: *Pandemic Simulation with Reinforcement Learning*
- Area Courses: Machine Learning / Engineering Reliable Scalable Projects / E-Commerce Systems

Bachelor of Science in Mechanical Engineering, *Koç University — 1st in Turkey (Times Higher Education Ranking)*   2014-2019

- Senior Project: *A Haptic Feedback Glove for Virtual Reality* — **Best Engineering Project Award 2019**
- Area Courses: Rocket Propulsion / Finite Element Analysis / Corporate Dynamics for Engineers

PROJECTS

- **SMSBOTU** — SaaS that delivers internet access via SMS in GSM-only regions; currently serves 10,000+ users. (2023)
- **Kaggle Competitions (×5)** — Top-10 % finisher in five CV/tabular challenges; full notebooks in portfolio. (2022)
- **Pandemic Simulation with Deep RL** — Trained RL agents in a continuous-state pandemic environment using Unity ML-Agents; project featured on Unity's website. (2020)
- **Vibrotactile Hand Interface for VR** — Award-winning haptic glove showcased at Europe's premier VR event (2 000 + attendees). (2019)