

Hasan Yazar

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Work Experience

LLM Developer Intern, Genarion, Istanbul

Jan 2024 – Jul 2024

- Built multi-agent workflows using LangChain, AutoGen, and CrewAI, and fine-tuned LLMs/VLMs on AWS SageMaker for improved performance and more efficient training pipelines.
- Integrated Speech-to-Text and Text-to-Speech models into a real-time conversational system, improving responsiveness and stability in interactive applications.

AI Developer Intern, EXAR, Istanbul

Jun 2023 – Jan 2024

- Applied computer vision and deep learning techniques for image-based object detection using YOLO.
- Processed a 150k+ imbalanced e-commerce dataset and benchmarked CNN models for reliable classification.

Project & Research Experience

Research Collaborator, Pennsylvania State University (Remote)

Jun 2024 – Present

- Collaborated with an Associate Research Professor from Penn State and an Assistant Professor from ITU on a year-long TÜBİTAK-funded project at the ITU Medical Device R&D Laboratory.
- Developed PINN models using NVIDIA Modulus for bio-heat equation modeling and published a first-author paper at IEEE EMBC 2025 regarding PINN architectures for non-homogeneous domains.
- Continuing direct research collaboration with the Penn State Associate Research Professor, focusing on Super Resolution and Ultrasound Localization Microscopy (ULM).

Founder & Team Leader, ITU Perceptron, Istanbul

Dec 2024 – Present

- Founded and lead ITU Perceptron, a 25+ member AI research team; directing project planning, recruitment, and interdisciplinary coordination across multiple subgroups.
- Supervised the development of open-source Turkish AI datasets across several domains, with releases on [Hugging Face](#) totaling over 5,000 downloads and 1.5m+ rows of data.

Scholar, MenaML Winter School, KAUST

Jan 2026

- Selected as one of 300 scholars from 2,300+ global applicants (13% selection rate) for a Google DeepMind-sponsored program, joining a cohort where 54% of participants held a Master's or PhD and only 13% were undergraduates.
- Completed an intensive 6-day program at KAUST via a full merit-based scholarship, engaging in advanced tutorials on AI for Science, Embodied AI, LLM Reasoning, and specialized AI subfields led by experts from Google DeepMind, QCRI, and Apple.

Researcher, London, UK (Remote)

Dec 2024 – Dec 2025

- Collaborated with Dr. Sinan Kufeoglu on the book “Data-Driven Energy: The Future of Resilient and Sustainable Power Systems,” contributing to the chapters “Big Data and Advanced Analytics in Energy” and “The Role of Data in Renewable Energy” within a 10+ person interdisciplinary writing group.

Education

B.Sc. Control Engineering, Istanbul Technical University

2022 – 2027 (Expected)

- Contributed to the NJORD Autonomous Ship Challenge as part of the ITU Autobee Electronics team, achieving World Championship. Designed STM32-based embedded software and system communication modules.

Skills

Technical: TensorFlow, Keras, PyTorch, NVIDIA Modulus, MATLAB, Python, NumPy, Pandas, Matplotlib, Git, GitHub, AWS SageMaker, Google Cloud, OpenCV, LangChain, CrewAI

Soft Skills: Teamwork, Analytical reasoning, Initiative, Adaptability, Attention to Detail