

Hesam Sheikh Hassani

AI Student, Research Fellow

Bologna, Italy | +393485141360

Email: hesam.sheikhassani@studio.unibo.it
LinkedIn: <https://www.linkedin.com/in/hesamsheikh/>
Website: <https://hesamsheikh.github.io/>

EDUCATION

University of Bologna	Bologna, Italy
M.Sc. Artificial Intelligence	(Expected) Graduation Date: Sep 2025
K. N. Toosi University of Technology	Tehran, Iran
B.Sc. Computer Engineering	Graduation Date: Sep 2022

WORK EXPERIENCE

Towards Data Science	Remote
AI Technical Writer	Mar 2024 - present

- Authoring and publishing articles on major publications such as **Towards Data Science**, analyzing cutting-edge **AI research papers** ([Medium](#), [Blog](#)), attracting over **100,000** views collectively.
- Exploring and **implementing** projects across key machine learning domains, such as Large Language Models, Generative AI, Natural Language Processing, AI Agents, etc.
- Actively publishing engaging **LinkedIn** content, simplifying complex deep learning concepts and AI innovations, successfully securing over **300,000** impressions within 90 days.

University of Bologna	Bologna, Italy
AI Software Developer	Nov 2023 - May 2024

Contributed to the integration of AI solutions within the AI-on-Demand platform, a key part of the EU-funded AI4Europe project, by re-engineering 60% of APIs to align with regulatory standards.

Pooya Fanavaran Kosar (PFK)	Tehran, Iran
Machine Learning Engineer	Jun 2021 - Jul 2023

- Led the engineering of AI solutions to Industrial Sorting Machines and Intelligent Transportation Systems (ITS), by employing **problem-solving** techniques for deploying real-time **computer vision** applications.
- **Major participation** in AI development of Agricultural Sorting Machines, achieved 98% classification accuracy and **91% mAP** in detection, increased inference speed by **800%** through GPU optimizations.
- **Key role** in crafting precise vehicle feature recognition models for ITS and successfully identified **13 colors** and **521 models** with **97.5%** color classification accuracy, using carefully architected **CNNs**.
- Directed a diverse team in developing an OCR machine learning model for license plate recognition. Attained a remarkable **96.5%** mAP score for character detection and **98%** accuracy for classification.

LANGUAGE SKILLS

English	Native or bilingual proficiency
German	Limited working proficiency

TECHNICAL SKILLS

Languages and Tools	Python, LangChain, CUDA, Tensorflow, PyTorch, Numpy, Pandas, Scikit-Learn, Keras, TensorRT, C++, NVIDIA Jetson, SQL, PostgreSQL, NoSQL, ElasticSearch, Linux, Git, Docker
Machine Learning Algorithms	CNN, YOLO, LSTM, GRU, Decision Trees, XGBoost, Random Forests, SVM, Regression, Clustering, Transformers, Genetic Algorithms, LLM