Şeref Recep Keskin

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EDUCATION

Master's Degree in Informatics 2025 - Present
Ankara University, Ankara, Turkey
Bachelor's Degree in Computer Engineering 2014 - 2019
Gazi University, Ankara, Turkey

INDUSTRY EXPERIENCE

Senior AI Engineer / Senior Data Scientist May 2025 – Present
Prometa AI, Istanbul, Turkey (Remote)

- Currently developing agentic AI systems and task-specific chatbots using LangGraph, LangChain, and OpenAI models
- Building AI agents that automate corporate travel planning workflows (flight, hotel, car rental, and offline processes), streamlining operations and reducing manual workload.
- **Technologies:** Python, SQL, Google Cloud Platform, Docker, Git, Redis (Pub/Sub, Streams, Caching)
- **Frameworks:** LangGraph, LangChain, OpenAI API, FastAPI, Pydantic, asyncio

Senior Machine Learning Engineer / Senior Data Scientist October 2022 – May 2025
Logiwa WMS, Chicago, IL, USA (Remote)

- Developed AI-powered features for a cloud-native warehouse management system
- Implemented LLM pipelines using LangChain & LLamaindex and open-source models for semantic search, RAG, and document intelligence
- Experimented with and deployed open-source LLMs (e.g., Mistral, Mixtral, LLaMA 2/3, GPT-style models) including quantized variants (e.g., AWQ)
- Designed and maintained scalable ETL workflows (Apache Airflow, PySpark)
- Built and deployed containerized ML services with FastAPI and Docker
- Managed GPU server configurations and CUDA setups for in-house model training and inference
- **Technologies:** Python, SQL, Apache Airflow, PySpark, Elasticsearch, Docker, PostgreSQL, Firestore
- **Frameworks:** VLLM, Ollama, LangChain, Llamaindex, Transformers, HuggingFace, Tensorflow, Torch, Scikit-learn, FastAPI, Flask

Data Scientist / R&D Engineer December 2020 – October 2022
KariyerNet, Istanbul, Turkey

- Built ML models for content moderation, CV classification, and personalized job recommendations
- Extracted structured insights from CV/resume text via NER and transformer-based NLP models (BERT, Electra)
- Deployed and monitored production models using observability tools (e.g., New Relic)
- **Technologies:** Python, SQL, Docker, Google Colab
- **Frameworks:** Transformers, Tensorflow, Torch, Scikit-learn, FastAPI, Flask

Machine Learning Engineer / Data Scientist June 2019 – December 2020
ICterra, Ankara, Turkey

- Developed ML models for anomaly detection in 5G and network security

TECHNICAL SKILLS

Expertise Areas

- Data Science & Machine Learning
- Large Language Models (LLMs) & Agentic AI & Retrieval-Augmented Generation (RAG)
- Data Engineering & MLOps
- ETL Pipelines & Data Warehousing
- SQL & NoSQL Databases
- Python Back-End Development
- Optimization & Research

Programming

- Python
- SQL
- Bash Scripting

Data Engineering & MLOps

- Apache Airflow, Apache Spark(PySpark)
- Redis (Pub/Sub, Streams, Caching)
- Cassandra, Elasticsearch
- Docker, PostgreSQL, SQL Server, Firestore
- NewRelic, Sentry

Frameworks & Libraries

- Flask, FastAPI, HuggingFace
- vLLM, LangChain, LLamaindex, Langgraph
- Tensorflow, PyTorch, Keras
- Transformers, Scikit-Learn, Spacy
- Pandas, Numpy, Matplotlib, Seaborn
- NLTK, SciPy, Statsmodels

Operating Systems

- Unix/Linux, Windows, macOS

Other Skills

- Agile & Scrum, Jira & Confluence, Mathematics & Statistics, LaTeX & Overleaf, Git & Postman, GPU Computing & CUDA.

JOURNAL & SCIENTIFIC CONFERENCE PUBLICATIONS

1. A. Karamustafaoğlu, M. Glisson, M. A. Ferraro, Ş. R. Keskin, G. Doğan, J. M. Lozano, and J. Knox, *"Analyzing a Literary Representation of the Wilmington Massacre of 1898 Through Natural Language Processing Using Sentiment Analysis,"* in *Proc. of the 2023 Congress in Computer Science, Computer Engineering, Applied Computing (CSCE)*, pp. 305–308, 2023. View Publication

2. Ş. R. Keskin, Y. Balı, G. K. Orman, F. S. Danış, and S. N. Turhan, *"Determining Column Numbers in Résumés with Clustering,"* in *Proc. of IFIP International Conference on Artificial Intelligence Applications and Innovations*, pp. 460–471, 2022. View Publication

3. I. Tuncer, Ş. Keskin, and M. Apaydın, *"İşin Olsun Platformu İlanlarında İçerik Kontrolü," Gazi Mühendislik Bilimleri Dergisi*, vol. 7, pp. 243–252, 2021. View Publication

4. R. Aral, Ş. Keskin, M. Kaya, and M. Hacıömeroğlu, *"Classification of TrashNet Dataset Based on Deep Learning Models,"* in *Proc. of 2018 IEEE International Conference on Big Data*, pp. 2058–2062, Dec. 2018. View Publication

5. İ. Sulo, Ş. Keskin, G. Doğan, and T. Brown, *"Energy Efficient Smart Buildings: LSTM Neural Networks for Time Series Prediction,"* in *Proc. of 2019 Deep Learning and Machine Learning (Deep-ML)*, pp. 18–22, Aug. 2019. View Publication

6. Ş. R. Keskin, A. Gençdoğmuş, B. Yıldırım, G. Doğan, and Y. Öztürk, *"DNN and CNN Approach for Human Activity Recognition,"* in *Proc. of 2020 7th Int. Conf. on Electrical and Electronics Engineering (ICEEE)*, pp. 254–258, 2020. View Publication

7. A. Gençdoğmuş, Ş. R. Keskin, G. Doğan, and Y. Öztürk, *"A Data-Driven Approach to Kinematic Analytics of Spinal Motion,"* in *Proc. of 2019 IEEE Int. Conf. on Big Data*, pp. 2222–2229, Dec. 2019. View Publication

8. G. M. Demirci, Ş. R. Keskin, and G. Doğan, *"Sentiment Analysis in Turkish with Deep Learning,"* in *Proc. of 2019 IEEE Int. Conf. on Big Data*, pp. 2215–2221, Dec. 2019. View Publication

9. G. Doğan, N. Alotaibi, E. Şahin, S. S. Ertaş, I. Çay, Ş. R. Keskin, M. J. H. Heijnen, and K. Ricanek, *"Using Artificial Intelligence to Predict Fall-risk During Adaptive Locomotion in Humans,"* in *Proc. of 2020 Int. Conf. on Artificial Intelligence and Modern Assistive Technology (ICAIMAT)*, pp. 1–7, 2020. View Publication

10. G. Doğan, I. Çay, S. S. Ertaş, Ş. R. Keskin, N. Alotaibi, and E. Şahin, *"Where Are You? Human Activity Recognition with Smartphone Sensor Data,"* in *Proc. of UbiComp-ISWC '20: Adjunct Proceedings of the 2020 ACM Int. Joint Conf. on Pervasive and Ubiquitous Computing and Proceedings of the 2020 ACM Int. Symposium on Wearable Computers*, pp. 301–304, 2020. View Publication

11. E. F. Keskin, O. İşleyen, H. Demirhan, and Ş. R. Keskin, *"Trash Classification Using Deep Learning Models,"* in *Proc. of 2023 Congress in Computer Science, Computer Engineering, Applied Computing (CSCE)*, pp. 318–323, 2023. View Publication

REFERENCES

References available upon request.