

Recep Ahmet Saritekin

DEVELOPER / MACHINE LEARNING DEVELOPER / DATA SCIENTIST

Stuttgart / Germany

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Summary

I'm a Machine Learning Developer who has a proven ability to create all kinds of AI solutions. From creating models to deploying them on the cloud and making sure they can handle a lot of traffic, I've got the skills to make it happen. I'm also really good at creating advanced NLP, computer vision, and generative AI models that can help businesses do amazing things. I love working with open-source tools and always looking for ways to improve and collaborate with others. I'm really detail-oriented and have a track record of delivering solutions that actually make a difference for businesses. I'm all about coming up with creative solutions and using the latest technologies to make things better.

Skills

Generative AI	GANs, Autoencoders, Pix2Pix, StyleGAN, StyleGAN-V, DCGAN, CycleGAN, MusicLM, Stable Diffusion, Text-to-Image Models, LLMs (ChatGPT, GPT-4, GEMINI), LangChain, LlamaIndex, LoRA, FLUX, Voice Cloning, Lip Sync, DeepFake, Neural Dubbing
Machine Learning	Deep Learning, Clustering, Classification, Regression, SVM, PCA, KNN, Dynamic Pricing, Churn Modeling, Fraud Detection, Customer Recommendation Systems
Computer Vision	Image Classification, Object Detection, Object Tracking, Image Segmentation, GANs, Image Recognition, Video Analysis, Image-to-Image Translation, Inpainting, 3D Face Reconstruction
NLP	Transformers, RNNs, Named-Entity Recognition, Sentiment Analysis, Summarization, Sequence-to-Sequence Models, Language Modeling, Retrieval-Augmented Generation (RAG), SOA Models (BERT, GPT, T5)
MLOps	Model Serving, Scaling, Real-time Chatbot Agents, CI/CD for ML Pipelines, Cloud Deployment (AWS, GCP, Azure), Data Version Control (DVC), MLflow, Airflow
Music	Lead Guitar, Vocal, Sound Design, Music Production
Sport	Wing-Tsun, Jiu Jitsu, Escrima, Athletics, Football, Table Tennis
Languages	English (Fluent), Turkish (Native), French (Elementary)

Toolkit

Programming	Python, GO, Java, JavaScript, Julia, Ruby
Machine Learning	TensorFlow (Core, Addons, Datasets, TensorBoard, TFLite), PyTorch, Scikit-Learn, NLTK, OpenCV, Knet.jl, Jax, spaCy, Hugging Face
MLOps	Numpy, Pandas, Matplotlib TensorFlow Serving, TorchServe, KF Serving (Kubeflow), Docker, Kubernetes, SageMaker, GCP AI Platform, Azure ML, MLflow, Airflow, DVC
Web Development	Django, Flask, FastAPI, Ruby on Rails, Vanilla JS, Vue
Music Production	Epiphone Les Paul Special, Fender Acoustic, Ableton, Logic Pro, Serum, Diva, FabFilter
Development Tools	Git, oh-my-zsh, Vim, VSCode, JetBrains, Google Colab, OSX, Linux

Work Experience

Freelance (Upwork)

Remote

TOP-RATED MACHINE LEARNING DEVELOPER

November 2020 - Present

- Developed and deployed multimodal AI models for vocal separation, which significantly enhanced post-production workflows by improving the accuracy and speed of vocal isolation in complex audio tracks, earning consistent positive client feedback.
- Designed and implemented custom retrieval-augmented generation (RAG) models using LangChain and ChatGPT, Claude, Llama etc. greatly improving information retrieval processes and addressing challenges related to data accuracy and speed in large-scale projects.
- Optimized AI pipelines for better scalability on AWS Lambda, leading to more efficient resource utilization and reduced operational costs for clients through enhanced resource management and load balancing strategies.
- Worked on a variety of machine learning tasks, including generative AI for video, audio, and text, addressing diverse client needs across different industries and delivering high-quality AI-driven solutions.
- Delivered comprehensive AI solutions to clients in various industries, including healthcare, finance, and media, which contributed to faster project completions and more effective decision-making by solving complex data challenges.

Zenlaw Inc.

Remote

MACHINE LEARNING ENGINEER / MLOPS SPECIALIST

August 2021 - March 2023

- Led the development and deployment of NLP models for legal document classification, resulting in improved accuracy and efficiency in document management and faster processing of legal workflows.
- Designed and maintained scalable ML pipelines on AWS SageMaker, enhancing system reliability and reducing deployment times by implementing streamlined update processes and minimizing system downtimes.
- Fine-tuned large language models specifically for legal domain applications, which improved the efficiency of contract review and analysis, enabling quicker and more accurate legal processes.
- Researched and integrated advanced AI methodologies, such as transformer architectures and transfer learning, to keep the company's AI capabilities aligned with the latest industry advancements, providing a competitive advantage in legal technology.
- Implemented robust Git-based version control and collaboration workflows, which reduced deployment errors and improved team productivity through more effective code management practices.

Koç University AI Lab

Istanbul, Turkey

RESEARCH INTERN - AI AND MACHINE LEARNING

June 2020 - August 2020

- Integrated ONNX support into the Knet.jl deep learning framework, facilitating cross-platform model interoperability and increasing the framework's usability within the academic research community.
- Enhanced Knet.jl's functionality by implementing critical operators such as GlobalAveragePool and BatchNormalization, which improved the framework's training efficiency and overall performance.
- Collaborated with researchers to advance Knet.jl's usability in both academic and real-world settings, contributing to the publication of peer-reviewed papers that demonstrated the framework's applied machine learning capabilities.

Google (TensorFlow)

Remote

GOOGLE SUMMER OF CODE INTERN - TENSORFLOW

May 2019 - August 2019

- Collaborated with the Google Brain team to enhance TensorFlow Datasets, adding new features that improved data processing efficiency and addressed common bottlenecks in large-scale machine learning projects.
- Resolved critical bugs and contributed to code reviews, which strengthened TensorFlow's infrastructure and increased community engagement and contributions.
- Gained valuable experience in collaborative open-source development, working alongside senior developers to expand TensorFlow's capabilities and contributing to the software's continued growth and reliability.

Education

Muğla Sıtkı Koçman University, Faculty of Engineering

Muğla, Turkey

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (100% ENGLISH)

Sep. 2017 - Aug. 2021

- Completed a comprehensive Computer Engineering program entirely in English, with a strong emphasis on algorithms, data structures, software engineering, and machine learning.
- Authored a research paper titled "Blockchain Based Secure Communication Application Proposal: Cryptouch", which was published in three national IEEE conferences. The paper explores the design and implementation of a decentralized, secure communication platform leveraging blockchain and InterPlanetary File System (IPFS) technology.
- Led and contributed to multiple academic projects, including a machine learning model for predicting stock market trends and a software engineering project automating data analysis tasks.
- Gained hands-on experience with various programming languages and tools, such as Python, C++, and MATLAB, through rigorous coursework and practical assignments.
- Successfully completed a one-year preparatory program to enhance English language proficiency, ensuring full participation and comprehension in the 100% English-taught engineering curriculum.

Publications

Cryptouch: A Secure Blockchain-Based Messaging Application Using IPFS

IEEE ISDFS 2018

AUTHOR

March 2018

- Presented a novel approach to secure, decentralized, and transparent communication leveraging blockchain technology and the InterPlanetary File System (IPFS).
- Published and presented this research at three national IEEE conferences, demonstrating the potential of blockchain for enhancing security in digital communication.

Presentations

March 2021	Educator on Generative Adversarial Networks (GANs) , Galatasaray University TensorFlow Training Camp	Online
May 2020	Speaker on TensorFlow and Community Contributions , Women TechMakers Bolu IDW	Online
April 2020	Speaker on Google Summer of Code and TensorFlow , Google Developer Student Club	Online
Nov. 2018	Speaker on Neural Networks and Deep Learning , Developer Conference	Muğla, Turkey
May 2018	Speaker on Blockchain-Based Secure Communication: Cryptouch , Teknopark İzmir International Blockchain Workshop	İzmir, Turkey
March 2018	Speaker on Blockchain-Based Secure Communication: Cryptouch , ISDFS 2018: 6th International Symposium on Digital Forensic and Security	Antalya, Turkey
Feb. 2018	Speaker on Version Control Systems: GIT , Developer Conference	Muğla, Turkey

Honors & Awards

2018	Champion , Genç Beyinler Yeni Fikirler Idea Competition	İzmir, Turkey
2013	5th Place , Ankara Atatürk Marathon Run	Ankara, Turkey
2010	Finalist , Turkey Futsal Tournament	İstanbul, Turkey
2009	Champion , Table Tennis City Tournament	Düzce, Turkey

Extracurricular Activity

Noverthink, Nohiro, Zeki & White, PKMG

Global, Muğla, Turkey

MUSICIAN AND GUITAR, ELECTRONIC MUSIC

2018 - Present

- Music producer specializing in progressive house, techno, and alternative genres with the project Noverthink.
- Guitarist in the psychedelic band Nohiro, recognized for innovative improvisation and eco-conscious jamming sessions.
- Solo guitarist and backing vocalist for Zeki & White, blending metal and classical guitar styles.
- Performed as the lead guitarist in a high school rock band, honing stage performance skills and musical versatility.

Athletics Team, Gym, Table Tennis Team

Ankara, Turkey

ATHLETE AND FITNESS ENTHUSIAST

2012 - Present

- Dedicated bodybuilder, committed to maintaining peak physical fitness and overall wellness.
- Middle-distance runner and flag bearer for the College Athletics Team, achieving notable accolades in competitions.
- Studied and practiced Wing-Tsun martial arts, incorporating its philosophy and techniques into daily life.
- Coached and trained with the Ankara Police College Wing Tsun Team, mastering advanced Wing-Tsun techniques and the principles of the Great Tao of Life.