

Haktan Çetin

Computer Engineer

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Profile

Machine Learning Engineer with 3 years of production ML experience, specializing in MLOps infrastructure, model training and inference pipelines, and secure ML systems. Designed and shipped end-to-end platforms combining PyTorch, FastAPI, Docker, and Firecracker microVMs for real-world business applications. Strong background in deep learning (LSTM, CNN, GAN), classical ML (SVM, XGBoost, Random Forest), financial time-series modeling, and Python/Rust development. TOBB University CS graduate (2024); TOEFL 110; fluent in two languages and conversational in an additional two.

Education

09/2018 – 04/2024

Bachelor's Degree

Ankara, Türkiye

TOBB University of Economics and Technology

Taken Courses: Big Data, Deep Learning, Machine Learning, Database Management, System Programming

Professional Experience

10/2023 – present

AI / Machine Learning Engineer

Ankara, Türkiye

TRK Technology

Architected and deployed production-ready Deep Learning/Machine Learning models (SVC, LSTM, RNN, GAN) for diverse business applications.

Improved model F1 score and accuracy by up to 50% on existing classification pipelines through feature engineering, hyperparameter tuning, and statistical analysis across 33+ technical indicators.

Streamlined model deployment using GitLab CI and Docker, enabling seamless integration across multiple departments and products.

Engineered automated web services for real-time financial data collection, complemented by manual data collection tools.

Built end-to-end MLOps platform enabling users to configure custom training pipelines via a JSON-Schema-driven UI; supports XGBoost, PyTorch, scikit-learn models, optimizers, evaluation metrics, and 33+ technical indicators.

Built a zero-trust file-scanning microservice using Firecracker microVMs, ClamAV, and YARA, exposed via gRPC; every user-uploaded training file is isolated and scanned before ingestion into the ML pipeline.

Implemented a Rust ML library targeting WebAssembly via wasm-bindgen: SVC (with SMO solver), Logistic Regression, Random Forest, LSTM, and CNN from scratch, with platform-agnostic trait-based memory monitoring and full test coverage.

Authored comprehensive technical documentation and UML diagrams for all ML services to support maintainability and onboarding.

05/2022 – 08/2022

Engineering Intern

Ankara, Türkiye

Cyberwise

Developed a web-based SSH client from concept to implementation, integrated into existing SIEM tooling.

Contributed full-stack changes (frontend + backend) to active SIEM projects and modernized technical documentation across web applications.

09/2021 – 12/2021
Ankara, Türkiye

Engineering Intern
STM

Built an automated user-notification system in Python (jQuery + cron) to alert users of expiring trials, and a PDF conversion service supporting multiple report templates.

Extended a centralized logging stack (Elasticsearch + Kibana) and built a Python-to-JavaScript data-visualization pipeline aggregating data from Elasticsearch for frontend dashboards.

Resolved UI/UX issues in Vue.js, jQuery, and CSS, improving user experience across internal tools.

01/2021 – 04/2021
Ankara, Türkiye

Engineering Intern
STM

Contributed full-stack engineering to an enterprise SIEM platform and co-authored a quarterly cyber threat intelligence report for stakeholders.

Researched emerging technologies for integration into enterprise security systems and enhanced project documentation for maintainability and onboarding.

Skills

Python	● ● ● ● ●	PyTorch	● ● ● ● ●
Data Engineering	● ● ● ● ●	Machine Learning	● ● ● ● ●
Deep Learning	● ● ● ● ●	NumPy	● ● ● ● ●
Pandas	● ● ● ● ●	Scikit-learn	● ● ● ● ●
Polars	● ● ● ● ●	SQL	● ● ● ● ●

Projects

Motor Vehicle Collisions Cluster Analysis

Analyzed NYC motor vehicle collision data using Apache Spark for large-scale parsing and clustering. Performed statistical analysis to define quantifiable accident severity metrics, providing actionable insights for urban safety planning.

Road Trip Assistant

Built Flask-based web application that generates optimized vacation schedules using bin packing algorithms. Transforms user preferences into efficient daily itineraries, maximizing travel experience within time and monetary constraints.

CookBuddy

Developed AI-powered cooking assistant webapp leveraging locally-hosted open-source LLM via LMStudio. Implemented full-stack solution using Streamlit and Ngrok, delivering personalized recipes and culinary guidance.

Languages

Turkish
Native

English
TOEFL - 110

French
Lived for 4 years in Belgium

German

Lived for 4 years in Belgium

References

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