

ADNAN ALTUKLEH

AI & Machine Learning ENGINEERING

HALMSTAD, Sweden · adnantakleh12@gmail.com · +46721233987

SUMMARY

I'm an AI & Machine Learning Engineer with a Master's degree in AI, passionate about driving innovation through data-driven solutions. I've developed systems that optimize waste collection, automate software workflows with large language models, and predict maintenance needs using advanced predictive analytics. With hands-on experience in deep learning, natural language processing, and computer vision, I excel at transforming complex data into actionable insights. Proficient in Python, TensorFlow, and other leading ML frameworks, I'm dedicated to delivering solutions that enhance operational efficiency and support strategic business growth.

EXPERIENCE

Decerno AB

AI & Machine Learning Engineer

GÖTEBORG, Sweden

JANUARY 2025 - MAY 2025

- Thesis Work with Decerno. Developed an AI-driven waste collection optimization system, leveraging predictive analytics and intelligent route planning to enhance operational efficiency, reduce costs, and promote sustainability.

Ericsson AB

AI & Machine Learning Intern

Karlskrona, Sweden

JUNE 2024 - January 2025

- Integrated large language models (LLMs) to automate commit messages and bug report generation in Git workflows, streamlining development processes with AI.

EDUCATION

Belkinge Insititute Of Technology

Master of Science in AI and Machine Learning

Karlskrona, Sweden

2020-2025

KEY UNIVERSITY PROJECTS

- **Anomaly Detection in Sensor Data** 2024
Developed LSTM Autoencoder models to detect anomalies in sensor data.
- **Image Classification Models** 2024
Implemented deep learning models (VGG19, ResNet-50, DenseNet-121) for image classification tasks.
- **Persona Chatbot Development** 2024
Designed an NLP-based chatbot for context-aware conversations.
- **Predictive Maintenance for Scania** 2024
Developed Random Forest and LSTM models to predict vehicle failures.
- **AI Security** 2024
Investigated defenses against DeepFool attacks on CNN models.
- **Testing Automation** 2023
Automated testing and code reviews using GitHub Actions and Codacy.
- **File System Development** 2023
Built a simple file system to explore data storage concepts.
- **Automated Parking Monitoring** 2023
Implemented OCR for license plate recognition using TensorFlow.
- **Webshop Development** 2022
Designed and implemented a database-backed webshop.

- **AI Product for Archers** 2022
Developed an AI-based sensor product using agile methods.
- **COVID-19 Data Visualization** 2022
Analyzed European pandemic data with statistical techniques and interactive visualizations.
- **Cloud Technology** 2022
Built a cloud-based application with Azure AI/ML services and Docker.

TECHNICAL SKILLS

- **Programming & Data:** Python, C/C++, MySQL, Data Visualization, Data Processing
- **Machine Learning & AI:** LSTM, CNNs, Anomaly Detection, Predictive Maintenance, AI Security, ML Frameworks, Intelligent Data Analysis
- **Software & Cloud:** Software Testing (Automation, GitHub Actions, Codacy), System Design, Software Architecture, Git, Azure, Docker, Flask Apps
- **Project Management & Domain Expertise:** Agile (Scrum, Sprints), Team Collaboration, Signal Processing, Robotics, AI System Security, Operating Systems
- **Languages:** Arabic (Native), Swedish (Fluent), English (Fluent), French (Intermediate)

REFERENCES

Available upon request.

COVER LETTER

I am excited to apply for the AI Engineer role at Teton. I am deeply inspired by your mission to empower healthcare workers through cutting-edge AI, a goal I am eager to contribute to with my hands-on experience in building LLM agents, integrating advanced speech technologies, and orchestrating multi-system automation.

In my previous projects, I have designed and deployed Speech-to-Text (STT) systems for the Arabic language and built Text-to-Speech (TTS) modules to improve accessibility and human-AI interaction. This work required optimizing model performance to meet real-time processing constraints.

At Ericsson, I was part of a team that engineered a system integrating Jira, Git, and Jenkins through smart API calls and large language models, automating the generation of commit messages and bug reports. This experience honed my skills in prompt engineering, API design, and robust system orchestration.

Technically, I am fluent in Python, have experience with type-safe languages, and have worked with LLM frameworks like Ollama. I thrive in environments that demand both speed and uncompromising quality, and I embrace performance measurement as a non-negotiable part of optimization.

I am eager to join Teton's high-velocity, meritocratic culture, where the goal is clear: build AI that delivers real, measurable impact for overburdened healthcare workers. I am ready to learn, adapt, and iterate alongside your world-class team.

Thank you for considering my application. I look forward to the possibility of contributing my expertise and passion to Teton's mission — and helping shape the future of AI-powered healthcare.

Best regards,
Adnan Altukleh