

# HAMIDREZA TAJALLI

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## EDUCATION

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<b>Radboud University</b> Ph.D. in Computer Science (Specialized in Robust Machine Learning)	<i>Nov. 2021 – Nov. 2025</i>
<b>Sharif University of Technology</b> M.Sc. in Computer Science (Safety and Security of AI)	<i>Oct. 2017 – Jan. 2020</i>
<b>K. N. Toosi University of Technology</b> B.Sc. in Computer Science	<i>Oct. 2012 – Oct. 2016</i>

## WORKING EXPERIENCE AND PROJECTS

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<b>AISY Lab (Nijmegen)</b> <i>ML Researcher</i>	November 2021 - Present
<ul style="list-style-type: none"><li>- Developed and deployed collaborative learning frameworks (Federated Learning and Split Learning), with a focus on evaluating and improving their robustness against model poisoning attacks.</li><li>- Implemented Extreme Learning Machines (ELMs), U-Net architectures, and vision transformers for image-based tasks, enhancing resilience against data poisoning through targeted robustness techniques.</li><li>- Designed and applied novel universal perturbation strategies to improve ML model performance on tabular datasets, achieving up to a 20% accuracy increase on Google AutoML and XGBoost.</li><li>- Investigated vulnerabilities in large language models (LLMs) during multi-stage training pipelines and developing defensive techniques to mitigate risks from model manipulation attacks.</li></ul>	

<b>IntelliSEC (Karlsruhe)</b> <i>ML developer</i>	May 2021 - October 2021
Developed deep learning models resilient to data inference attacks by integrating differential privacy mechanisms, enhancing model robustness without significant performance trade-offs.	

<b>DNS Lab (Tehran)</b> <i>ML Researcher</i>	November 2017 - November 2020
Implemented innovative adversarial defense techniques by transferring adversarial ML methods from image classification to encrypted network traffic analysis. Demonstrated effectiveness by neutralizing WFP models of over 90%.	

<b>Amnafzar Co. (Tehran)</b> <i>Java Developer</i>	March 2019 - March 2020
Member of SIEM group in developing PARHAM, An application for management & analyzing enterprise systems logs.	

*Internship*

Member of SOC(Security Operation Center)Performing real-time status monitoring of network systems along with getting involved in multiple aspects of preventing, detecting and responding to internal and external threats.

**TECHNICAL SKILLS**

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<b>Programming Languages</b>	Python, Java, C/C++, JavaScript, HTML, CSS
<b>Frameworks &amp; Libraries</b>	Pytorch, Tensorflow, Keras, Scikit-learn, XGBoost, LightGBM, CatBoost, Pandas, Numpy
<b>LLM Toolkits</b>	Hugging Face, LangChain, RAG, NLTK, Faiss
<b>MLOps</b>	DVC, Docker, MLflow, FastAPI, Gradio
<b>Cloud Services</b>	Azure ML, VertexAI (GCP), SageMaker (AWS)
<b>Databases</b>	RDBMS, NoSQL
<b>Language</b>	English (Full working proficiency), Dutch (B1)
<b>Licenses &amp; certifications</b>	IBM Generative AI Engineering with LLMs, Microsoft AI & ML Engineering