

# ADAM MEDRAGH

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## OBJECTIVE

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Passionate MSc AI Student with extensive knowledge in machine learning, AI, and cybersecurity. Seeking a Machine Learning Engineer role at TikTok BRICS, Singapore to leverage my analytical skills and hands-on experience in developing intelligent solutions that enhance platform security and foster innovation.

## EDUCATION

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**Master of Science in IT, minor in AI & Cybersecurity** Sep 2021 - Now  
*INSA Centre-Val de Loire*

Notable Courses: Machine Learning theory, Advanced design and object programming, Web application design, Algorithm and reasoning

**Exchange Program specialized in AI** Sep. 2022 - Feb. 2023  
*University POLITEHNICA of Bucharest*

Notable Accomplishments: Ranked No.1 among Romanian Universities in relevant AI disciplines

## TECHNICAL SKILLS

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<b>Technical Proficiencies</b>	Python, Java, C, Bash, SQL, Hadoop, Spark, TensorFlow, PyTorch
<b>Machine Learning</b>	Deep neural nets, Transfer/multi-task learning, Reinforcement learning
<b>Platforms</b>	Linux, AWS Services, Hadoop ecosystem including Hive
<b>Data Visualization</b>	Pandas, OpenCV
<b>Tools</b>	Git, VSCode, Docker

## EXPERIENCE

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**Machine Learning Engineering Internship** Mar. 2024 - Today  
*MicroSec, Singapore*

- Developed a ML-based cybersecurity framework addressing authentication and intrusion detection.
- Designed and integrated ML models for vulnerability analysis and anomaly detection into production systems.

**Deep Learning Engineering Internship** Apr. 2023 - Aug. 2023  
*Nuclétudes, ArianeGroup*

- Worked on object recognition software to enhance satellite map analysis leveraging Python and deep learning frameworks.

**AI & Machine Learning Research Activity** Dec. 2022 - Feb. 2023  
*University POLITEHNICA of Bucharest*

- Collaborated on AI research to develop a conversational AI agent for social media authenticity checks.

## PROJECTS

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- **AI Project Leader:** Developed a real-time speech synthesis tool with Python and TensorFlow as a part of a student team project.
- **French National Student Entrepreneur:** Currently holding status due to involvement in tech innovation and AI-driven entrepreneurial activities.

## CERTIFICATIONS & LANGUAGES

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Certifications

- Neural Networks and Deep Learning - Coursera
- Intro to TensorFlow for AI, ML, and Deep Learning - DeepLearning.AI
- What is Data Science? - IBM

### **Languages**

- English: Native
- French: Native
- German: Conversant - B1
- Arabic: Basic Knowledge (Reading & Writing)

### **LEADERSHIP & EXTRACURRICULAR ACTIVITIES**

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- Directed Sport division for High Five 2022, the second largest event of Bourges in 2022.
- Served as Treasurer for the 2021 Poker Student Club, managing funds and contributing to team development and self-awareness.