Machine Learning Software Engineer – Microsoft Threat Intelligence Center

Description

Security represents the most critical priorities for our customers in a world awash in digital threats, regulatory scrutiny, and estate complexity. Microsoft Security aspires to make the world a safer place for all. We want to reshape security and empower every user, customer, and developer with a security cloud that protects them with end to end, simplified solutions.

The Microsoft Security organization accelerates Microsoft's mission and bold ambitions to ensure that our company and industry is securing digital technology platforms, devices, and clouds in our customers' heterogeneous environments, as well as ensuring the security of our own internal estate. Our culture is centered on embracing a growth mindset, a theme of inspiring excellence, and encouraging teams and leaders to bring their best each day. In doing so, we create life-changing innovations that impact billions of lives around the world.

Microsoft Threat Intelligence Center Engineering Team collaborates across all of Microsoft Security to provide world-class threat intelligence and hunting capabilities directly to our customers, security researchers, and power Microsoft's entire security suite of products. Our team leverages AI to process massive internet datasets, as well as Microsoft-created and curated content, to deliver the context and insights our customers rely on. We are currently seeking a Machine Learning Operations Software Engineer to build the next-generation Threat Intelligence platform using AI, enhancing analysts' productivity to safeguard Microsoft and its customers.

Microsoft's mission is to empower every person and every organization on the planet to achieve more. As employees we come together with a growth mindset, innovate to empower others, and collaborate to realize our shared goals. Each day we build on our values of respect, integrity, and accountability to create a culture of inclusion where everyone can thrive at work and beyond.

Responsibilities

As a Machine Learning Software Engineer II, you will:

- Collaborate with researchers, data scientists, software engineers, and product managers to design sophisticated machine learning models for Threat Intelligence.
- Implement and fine-tune neural network architectures, including transformer-based models.
- Monitor an optimize model performance, scalability, and efficiency.
- Conduct experiments to evaluate model performance, robustness, and generalization.

Hiring organization
Candidate-1st

Employment Type
Full-time

Beginning of employment
asap

Job Location
Dublin, Dublin, Ireland

Working Hours
40

Base Salary
euro USD 90K - 217K *

Date posted
May 16, 2024

- Explore novel techniques and approaches to enhance model capabilities.
- Stay up to date with the latest advancements in deep learning, and AI research.
- Work with large-scale datasets, preprocess them, and create appropriate data representations.
- Deploy trained models in production environments.
- Assume on-call duties as scheduled.

Qualifications

- Bachelor's degree in computer science, Computer Information Systems, Math, Engineering or related field, or equivalent industry experience.
- Analytical, problem-solving, and software design skills (object-oriented design and analysis, relational database design).
- Experience with one or more general purpose programming languages such as JavaScript, TypeScript, C#, Python, Java, C/C++, Rust.
- Experience in Developing and Running Machine Learning or High-Performance Computing (HPC) applications or related experience.
- Experience with Machine Learning software or building associated data pipelines.
- Experience in tuning performance of ML or HPC applications.
- Prior experience of building models and operationalizing them in production.
- Experience in using MLOps and platforms\tools to manage ML models lifecycle.
- Building SLM/LLM and Machine Learning solutions.

Ability to meet Microsoft, customer and/or government security screening requirements are required for this role. These requirements include, but are not limited to the following specialized security screenings: Microsoft Cloud Background Check:
This position will be required to pass the Microsoft background and Microsoft Cloud background check upon hire/transfer and every two years thereafter.

#MSFTSecurity #MSTIC #MLOps #ML #AI #ThreatIntelligence

Benefits/perks listed below may vary depending on the nature of your employment

with Microsoft and the country where you work.

How the process will look like

Your teammates will gather all requirements within our organization. Then, once priority has been discussed, you will decide as a team on the best solutions and architecture to meet these needs. In continuous increments and continuous communication between the team and stakeholders, you're part of making data play an even more important (and understood) part withing Brand New Day.

Job Benefits

 USD 90K – 217K *