

Successful R&I 2025

# On-Device AI Agents

6-7 March 2025  
Düsseldorf



**EuroHPC**  
Joint Undertaking



**FORTISSIMO**  
PLUS

# About Me & My Work

- Assistant Professor of Artificial Intelligence @ Boğaziçi University
- Phd in Informatics from University of Edinburgh
- MS in Informatics from TUM
- BS in Computer Engineering & Physics from Boğaziçi University

## Research Interests

- LLM Agents
- Large scale AI training
- Efficient training for Deep Learning
- LLMs and VLMs



**Mustafa Taha Koçyiğit**



For my vCard  
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# Our Capabilities

## Core AI Capabilities:

- Expertise in **large scale AI training** for **Generative AI models**
- Optimization of the **inference** stack

## Current EU funded projects:

- On-Device AI Agents: ArtificaX and Turkcell GB
- Revolutionizing Industrial Enzymes through Generative AI: CureCraft
- Scalable Multi-Modal AI for Cross-Modal Reasoning: Bogazici University



# What We Are Building

AI agents that interact with APIs to complete complex actions like book trips, manage schedules, and perform transactions.

- High level of **reasoning and planning** capabilities in order to handle ambiguity and uncertainty in real world scenarios
- Ability to utilize a large API database
- **Privacy-first, on-device execution** (minimizing cloud dependency).
- **Integration with mobile devices, vehicles and IoT.**



# What We Are Looking For

## Payment and Authentication

Secure transactions identity management

## Specialized integrations

Valuable integrations with interesting use cases

## Automotive or Mobile Platform

Sound based AI agents in vehicles or Phones

# Why Partner with Us?

Cutting-edge GenAI research.

Scalable and privacy-preserving

Shape the future of AI agents.



# AI that can take action

We are looking for partners that can help us integrate AI into our lives

If you are interested in integrating AI agents into your platform or you provide solutions for payment and authentication please contact us.