

MSCA PF 2026 HOSTING OFFER – ELTE BPIE RG

Name of the host institution	ELTE Eötvös Loránd University
Faculty	Faculty of Informatics
Name of the supervisor	Tamás Orosz, PhD, Habil, Dr. Tamás Orosz
Organisational Unit / Research Group	BPIE Research Group – Business Process, Data Science & Intelligent Enterprise Systems
Research Team	<p>Tamás Orosz (Associate Professor, Group Leader; ERP, digital transformation, AI-driven enterprise systems)</p> <p>Attila Márton Putnoki (PhD Candidate; cognitive information systems, decision support, HCI)</p> <p>Arafat Md Easin (PhD Candidate; LLM integration, intelligent automation, generative models)</p> <p>Georgina Asuah (PhD Candidate; SAP machine learning, custom API integration, analytics)</p> <p>Imre Munkácsi (PhD Candidate; ERP implementation, Industry 4.0, clean-core systems)</p> <p>Attila Selmecei (PhD Candidate; GUI development, version control, SOA in ERP)</p> <p>Dominik Banka (PhD Student; explainable AI, low-code enterprise applications)</p> <p>Kawkab Bouressace (PhD Student; IoT, real-time data quality monitoring)</p> <p>Bochra Jendoubi (PhD Student)</p> <p>Ons Saadallah (PhD Student)</p> <p>+ 11 MSc students of the Data Science master's degree specialization</p>
Project experiences (EU / international)	<p>DATA-EDIH (European Digital Innovation Hub) – Supporting digital transformation of enterprises through AI, data analytics, and advanced technologies</p> <p>SAP Manufacturing Execution & Industry 4.0, 2022</p> <p>Agricultural SAP implementation, 2023</p> <p>1st SAP UA Community Conference: Central and Eastern Europe, Budapest, 2024 – Organized and hosted by the research group at ELTE Faculty of Informatics</p>
Research Interests	<p>Key Research Focus Areas:</p> <p>Agentic AI & LLM Reasoning: Researching agent-based Artificial Intelligence and the use of Large Language Models to provide reasoning-driven guidance in complex decision-making processes.</p> <p>Adaptive AutoML & Time-Series Forecasting: Developing interpretable hyperparameter optimization frameworks and drift-aware feature engineering to enhance forecasting robustness in dynamic environments (e.g., energy, finance).</p>

	<p>List of the Research Interests:</p> <ul style="list-style-type: none"> • Generative Models and LLM Integration • Advanced Analytics & Predictive Modeling • Natural Language Understanding • Sustainability & Innovation in ERP • In-Memory Database Architectures • Enterprise Architecture Best Practices • Commercial & Open-Source Technology Stacks • Big Data, Machine Learning, and IoT in Enterprise Contexts • Smart Automation & Intelligent Orchestration • Cloud-Native and DevOps-Driven ERP Deployment • Cognitive Information Systems & HCI • AI- and BI-Powered Enterprise Functions • End-to-End Digital Transformation • Explainable AI and Low-code technologies in ERP systems
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