University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR

Fastweb's vision for Italian GenAI
How to build your first LLM from scratch

Giovanni Germani, Edoardo Michielon, Marco Pasqualini – Fastweb

University of Pavia, Aula Magenta, Floor D
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Abstract: Ever wonder what it takes to train your own ChatGPT-like AI model from scratch? In this seminar, Fastweb will share the behind-the-scenes journey of building a Large Language Model (LLM) from the ground up. You will hear real stories about the technological and data challenges, with a technical deep dive into the full training methodology of an LLM, covering pre-training, supervised fine-tuning, human alignment, evaluation and – last but not least – the serving inference engine. It is a chance to see how cutting-edge AI is built, not just in theory, but in the real world.

Bios: Giovanni Germani is Head of Artificial Intelligence at Fastweb Vodafone. Under his leadership, the company has built over 100 internal artificial intelligence use cases and is now bringing the FastwebAI Suite to market: a complete platform of AI solutions for businesses and public administration, at the center of which is FastwebMIIA, an Italian LLM designed to be natively compliant with the AI Act and ensure sovereignty, security and performance.

Edoardo Michielon began his career as a data scientist after studying statistics. For the past two years, he has focused on studying AI and LLMs. He is part of the Fastweb team that developed the proprietary FastwebMIIA model.

Marco Pasqualini is an AI Scientist, and he is part of the Fastweb team that developed the FastwebMIIA model since its inception. He primarily worked on the pretraining phase of the model and on the development of intelligent agents for Fastweb.

Organizers	**Ph.D. Coordinator**
Prof. Piercarlo Dondi	Prof. Ilaria Cristiani
Prof. Luca Lombardi	

Seminar in English
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