

Fine – Tuning and Performance Testing of Pre – Trained Large Language Models for Applications in Domain of Biomedical Materials Synthesis

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Large language models (LLMs) like Generative pre-trained transformers (GPTs) emerged in past couple of years with increase of computational power. These models are used for various tasks in field of natural language processing, such as text classification, question answering and language translation. In this talk, research methodology, practical aspects and performance testing of fine – tuned LLMs, both commercial and open source in domain of materials synthesis, will be covered. So far, LLMs seems to have promising future in education, research and production only integrated with other chemistry tools, thus further development of integrated AI systems as well as LLMs is necessary to enhance performances and meet future demands.