Postdoctoral Fellowship Opportunity

We have the opportunity to host a postdoctoral fellow. The contract is **R 250 000** (tax-free) per annum. Additional grants for travel and conferences is available.
Period of support – **2 years** renewal is subject to satisfactory progress report.

Project Description

Development of Domain-specific Generative AI (DoGAI)
The advent of Generative AI (GenAI) based on pre-trained large language models (LLMs) and large multimodal models (LMMs) has recently elicited much interest. Popular examples of GenAI are ChatGPT 3.5, 4.0, Bing AI, Gemini, Deep Seek and many more. So far, GenAI systems have produced impressive and mixed results, adjudged able to do well on general knowledge questions, but not so well in domain-specific questions and questions requiring higher-order reasoning. The goal of this research is to explore the adaptation of open-source LLMs with domain-specific knowledge and continuous training leading to the development of GenAI decision-support for specific application domains. We are looking more into the domain of healthcare and business.

Skillsets:
Python programming, LLM development (finetuning and training), NLP, machine learning, and good academic writing.

The appointment will be through a competitive selection process.

Eligibility Criteria:
- Candidates must have completed a doctoral degree (PhD) in a relevant field.
- Applicants must be under 40 years of age.
- Research experience in Artificial Intelligence / Machine Learning is fundamental.
- International applicants will need to obtain a South African visa.

Interested candidates should send a comprehensive CV to:
Prof Olawande Daramola
Department of Informatics, University of Pretoria
Email: wande.daramola@up.ac.za