

Workshop Agenda

Enhancing Energy Economics with AI

Tuesday, November 12, 2024, KAPSARC (APEX – 1st floor) 9:30 a.m. – 4:30 p.m.

Please note: timings are subject to change

9:30 a.m. Check-in and Registration Session 1: Understanding ChatGPT and LLM Models			
9:30-10:00 a.m.	 What is ChatGPT? How Does ChatGPT Work? Generative Pre-trained Transformers (GPT) Training and Fine-Tuning Comparing Al Models and Neural Networks 		
Session 3: Chai-of-Thoughts and other Prompting Strategies			
10:00-10:30 a.m.	What is promptingPrompt engineeringReasoning		
10:30 - 10:45 a.m. Coffee Break			

Session 3: Practical Applications of Al in Economics		
10:45 a.m 12:00 p.m.	 2.1 Textual analysis Efficient Literature Search Sentiment analysis Talking to Scientific Articles and efficient information extraction Group exercise to Mater the Material 	
12:00 – 1:00 p.m. Lunch		



Enhancing Energy Economics with AI

Session 4: Advanced Data Analysis Techniques			
1:00 - 2:00 p.m.	 Utilizing Al for Advanced Data Analysis Practical Examples and Exercises Automation of Routine Tasks Efficiency Gains and Productivity Improvements Real-World Applications 		
Session 5: Coding with ChatGPT			
2:00 – 3.00 p.m.	 Generating and Executing Python Code Programming in Python using English Executing the Code within ChatGPT and outside Real-Time Demonstrations Q&A Sessions with ChatGPT Practical Exercises 		
Session 6: Addressing the Risks and Ethical Considerations			
3:00 - 3:30 p.m.	 Understanding Al Limitations Hallucinations and Errors Bias and Fairness in Al Outputs Ethical Considerations Al in Policy Making Data Privacy and Security 		
3:30 - 3:45 p.	3:30 – 3:45 p.m. Coffee Break		



Enhancing Energy Economics with AI

Session 7: Al Tools for Economists				
3:45 – 4:00 p.m.	 Talk to KAPSARC RESEARCH Introducing KAPSARC GenAl literature survey tool (Amar) Overview of customized GPT agents ScholarAl, Wolfram Alpha, and Others Practical Demonstrations Integrating Al Tools into Economic Research Case Studies and Examples 			
Session 8: Brainstorming and Feedback				
4:00 – 4:15 p.m.	 Collaborative Brainstorming Sessions Potential AI Applications in Economics Group Discussions and Feedback Using AI for Creative Problem Solving Generating Ideas and Solutions Practical Exercises 			
Session 9: Writing and Editing with Al				
4:15 - 4:25 p.m.	 Enhancing Writing Skills Editing and Proofreading with AI Generating Content and Summarizing Practical Exercises Improving Research Papers and Reports 			
Session 10: Closing Remarks and Future Directions				
4:25 - 4:30 p.m.	Q&A and Networking			