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GenAI Capability for Progressive SMEs



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Welcome to the AI Capability Workshop tailored for SMEs.

This workshop is designed to provide both technical and non-technical people with a comprehensive understanding of GenAI, its applications, and best practices especially around containment and alignment. Guardrails are going to be crucial for GenAI adoption in the real world

Over the course of two days, participants will delve into the intricacies of models, frameworks, and the ethical implications of AI, create and experiment with their own GenAI applications, agents and chatbot among other topics.

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Day One





Understanding AI and Its Foundations

Day One focuses on introducing participants to AI and its foundational concepts. The sessions are designed to be interactive, with hands-on exercises complementing theoretical knowledge.

The day's highlights include:

- Demystifying Models, Weights, and Biases
- The differences between tuning vs Prompting
- Introduction to AI frameworks with a spotlight on Langchain
- Exploring no-code AI solutions with LangFlow and Flows

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Day Two





Implementing, Testing, and Safeguarding AI

Day two shifts the focus towards implementing, testing, and safeguarding AI solutions. Participants will gain insights into testing AI models, addressing safety concerns, and understanding the ethical considerations in AI.

The day's highlights include:

- Testing and evaluating models using tools like LangSmith and LangForge
- Introduction to GuardRails for AI to ensure business safety
- Practical hands-on session to build a simple AI project



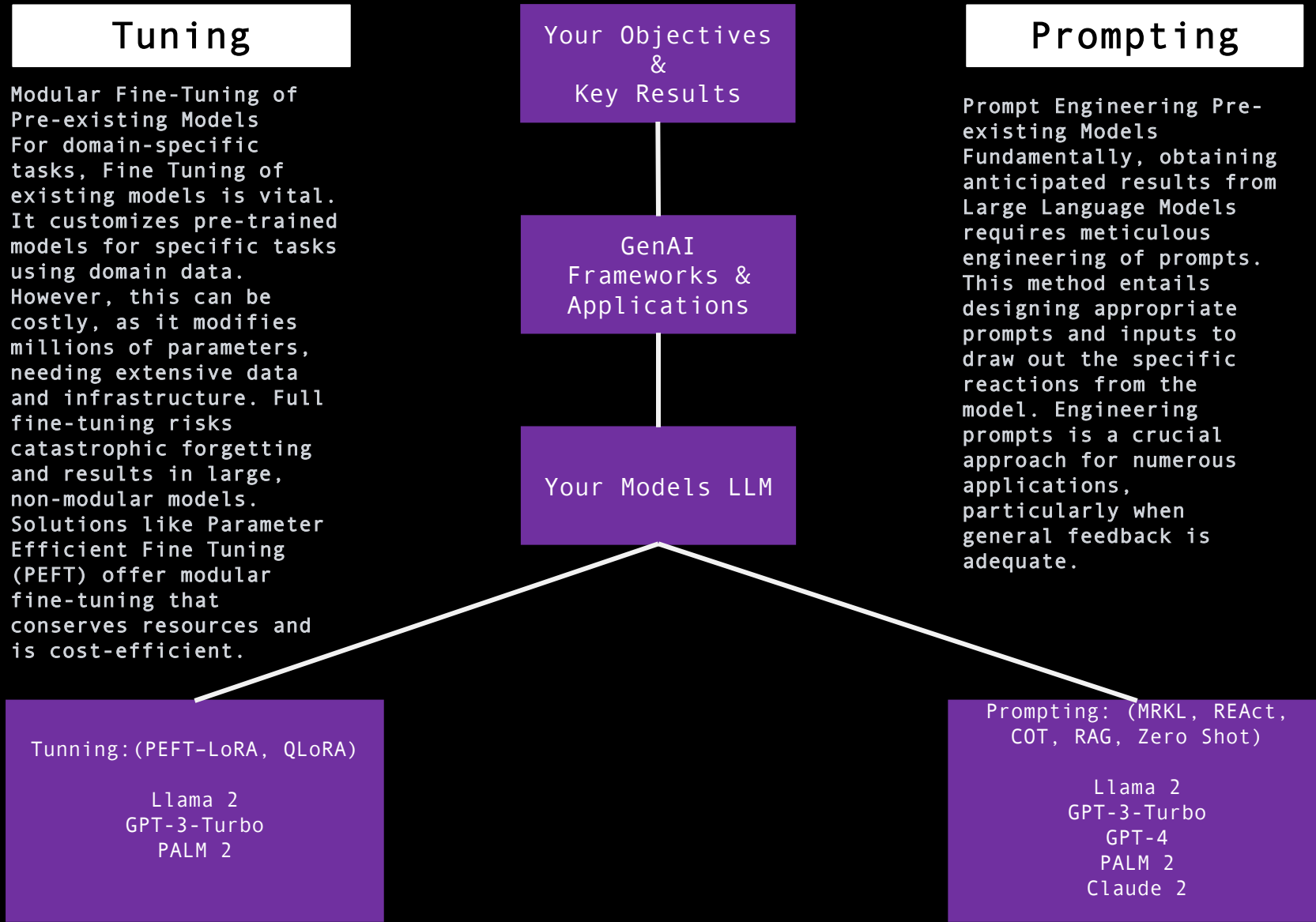
Key Takeaways at the end of this workshop, participants will

- Have a clear understanding of AI, models, weights, and biases.
 - Be familiar with various AI frameworks and tools.
 - Gain hands-on experience in building AI applications.
 - Understand the importance of safety and ethics in AI.
 - Be equipped with the knowledge to scale AI solutions for their businesses.
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Tuning Vs Prompting







Glossary Terms

Attention Model architecture
Completion Low rank adaptation (LoRA) Fine tuning MRKL
Artificial Intelligence (AI)
Reinforcement Learning from Human Feedback (RLHF) One-shot / Few-shot
Parameters Transformer Prompt
REAct Retrieval Augmented Generation (RAG) System prompt Chain-of-thought
Generative pretrained transformers (GPT)
Generative AI Embeddings Plugins / tools
Multi-modal Hallucination
Large language model (LLM) Training
Agents Prompt injection Prompt engineering
Neural network Token
ChatGPT Foundational model Alignment



Term	Description
Neural network	Network modelled on the brain
Parameters	Weights that control neural network calculations
Model architecture	Components of a complex AI model
Training	Improving model performance on data
Generative AI	Models that generate text/images from prompts
Generative pretrained transformers (GPT)	Popular large language model
ChatGPT	Conversational version of GPT
Large language model (LLM)	AI model that handles language
Transformer	Popular neural network architecture
Token	Encodes text numerically for models
Embeddings	Represent words/text semantically
Attention	Allows models to understand context



Term	Description
Alignment	Steers models towards ethical output
Foundational model	Broadly trained model
Fine tuning	Tailoring model to specific tasks
RLHF	Reinforcement Learning from Human Feedback to improve models
Low rank adaptation (LoRA)	Efficient fine-tuning method
Multi-modal	Handle mixed text/image input
Prompt	Text input to models
Completion	Text output from models
Hallucination	Fictional/incorrect output
One-shot / Few-shot	Types of prompting
System prompt	Defines model characteristics
Prompt engineering	Developing effective prompts

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Rate Card – GenAI Services





GenAI Services	Rate
GenAI Pro Introduction 180 mins	£999
GenAI Basic Introduction 90 mins	£499
GenAI Pro Hands-on Workshop	£2499
GenAI Enterprise 2-day Hands-on Workshop	£24,499
General Cloud Architecture	£999 p/d
GenAI Application Architecture	£2499 p/d
GenAI 15min Inro/Demo 15min	Free