



LiveTech

Since 2004



GEN AI & AGENTIC AI



THE FUTURE OF INTELLIGENT TECHNOLOGY



GENERATIVE AI

Creative Content Creation & Innovation



AUTONOMOUS AGENTS

Smart Adaptive Systems & Automation



HUMAN-AI COLLABORATION

Enhanced Productivity & Interaction

REAL-WORLD APPLICATIONS

Transforming Industries & Everyday Life

❖ **Module 1: Foundation**

- Python
- Basic of Statistics
- Basic of Machine Learning
- Deep Learning
- NLP
- ML
- One hot Encoding, Bag Of Words,
- TFIDF
- Word2vec, AvgWord2vec
- Tokenizatio
- Ann-Working of Multilayered Neural
- Forward Propogation,
- Backward Propogation
- Activation Functions, Loss Functions
- Optimizers

❖ **Module 2: NLP**

- Advanced NLP Concepts
- RNN, LSTM RNN, GRU
RNN, Bidirection LSTM

- Encoder Decoder, Seq to Seq, Transformers

❖ **Module 3: Generative AI**

- Basic of Gen AI
- Types of Generative AI Models
- Word embeddings
- Diffusion Models
- Image generation
- Generative adversarial networks
- Transformers & Attention Mechanisms

❖ **Module 4: Generative AI Frameworks**

- Lang Chain
- Vector Data Base (Chroma DB)
- APIs
- Retrieval Augmented Generation(RAG)
- OpenAI API
- Prompt design
- Semantic Search

❖ **Module 5: Generative AI Tools**

- Hugging face
- Chat gpt

- Vertex AI (gemini)
- Clouds (GCP, AWS, AZURE)
- Data science GenAI tools

❖ **Module 6: Use Generative AI In Data Science**

- Generative AI in Data Science Lifecycle
- Gen AI For Data Preparation & Data Querying
- Generative AI for Data Insights
- Generative AI for Data Visualiza
- Generative AI for Understanding
- Data and Model Building

❖ **Module 7: Introduction to Ethics and Responsibilities in GenAI**

- Understanding the ethical implications of generative models
- Addressing bias and fairness in generative AI syst
- Ensuring responsible use and deployment of generative models

❖ **Module 8: Introduction to Agent**

- Customer support AI Agent
- Travel Planner Multi AI Agent
- Introduction to Smolagents