



# CYBER HOOKS

A C A D E M Y

Dedicated To Excellence  
Gen Ai

Session 2025-2026



# *Introduction*



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## **Welcome to Cyberhooks Academy**

At Cyberhooks Academy, we provide expert Generative AI training to help individuals and businesses understand, build, and implement AI-powered solutions. Learn how to create intelligent applications using modern technologies such as Large Language Models (LLMs), Prompt Engineering, RAG, and AI Agents.





# *Modules of the course*

- Introduction to Artificial Intelligence
- Python for AI
- Machine Learning Fundamentals
- Deep Learning Basics
- Natural Language Processing (NLP)
- Introduction to Generative AI
- Large Language Models (LLMs)
- Prompt Engineering
- GenAI Tools & Frameworks
- Retrieval Augmented Generation (RAG)
- Fine-Tuning Large Language Models
- Advanced Generative AI (AI Agents, LLMOps, Deployment)



# *Introduction to Artificial Intelligence*

## *Python for AI*

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- What is Artificial Intelligence
- AI vs Machine Learning vs Deep Learning
- History of AI
- Applications of AI in industry
- AI tools overview (ChatGPT, Gemini, Claude)
- Python basics
- Data structures
- Numpy
- Pandas
- Matplotlib / Seaborn
- Jupyter Notebook



# *Machine Learning Fundamentals & Deep Learning Basics*



- Supervised learning
- Unsupervised learning
- Regression
- Classification
- Model evaluation
- Overfitting / Underfitting
- Neural Networks
- Activation functions
- Backpropagation
- CNN (Convolution Neural Networks)
- RNN & LSTM



# *Natural Language Processing (NLP) &*



# *Introduction to Generative AI*

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- Text preprocessing
- Tokenization
- Word embeddings
- TF-IDF
- Named Entity Recognition
- Sentiment Analysis
- What is Generative AI
- Types of generative models
- Use cases of GenAI
- Risks and limitations
- Ethics & Responsible AI



# *Large Language Models (LLM) & Prompt Engineering*

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- Transformer architecture
- Attention mechanism
- GPT models
- BERT vs GPT
- LLM capabilities
- Text generation
- Summarization
- Question answering
- Code generation
- Prompt basics
- Zero-shot prompting
- Few-shot prompting
- Chain-of-thought prompting
- Prompt templates
- Prompt optimization



# GenAI Tools & Frameworks & Retrieval Augmented Generation (RAG)

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- OpenAI API
- Hugging Face
- LangChain
- LlamaIndex
- Vector databases
- Pinecone
- Weaviate
- FAISS

- RAG architecture
- Document chunking
- Embeddings
- Vector search
- Building RAG chatbot
- Knowledge base chatbot



# *Fine-Tuning LLMs & Advanced Generative AI*

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- AI Agents
  - Multi-agent systems
  - Autonomous workflows
  - LLMOps
  - Model deployment
  - Scaling GenAI applications
  - Security & hallucination control
- What is fine-tuning
  - Supervised Fine Tuning (SFT)
  - RLHF (Reinforcement Learning from Human Feedback)
  - Dataset preparation
  - Model evaluation



# Our Training Partners

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## EC - Council

EC-Council offers globally recognized cybersecurity certifications, including CEH, CND, and ECIH, to help professionals advance in the field.



## N.S.D.C

NSDC is a government-backed organization in India focused on enhancing skill development and vocational training to boost employability.



## Skill India

Skill India is an initiative by the Indian government aimed at providing youth with skills training to enhance employability and drive economic growth.



## Nasscom

NASSCOM is India's trade association for the IT and BPO industries, driving growth and innovation.

# *Job Assistance Training*

## **Business Communication:**

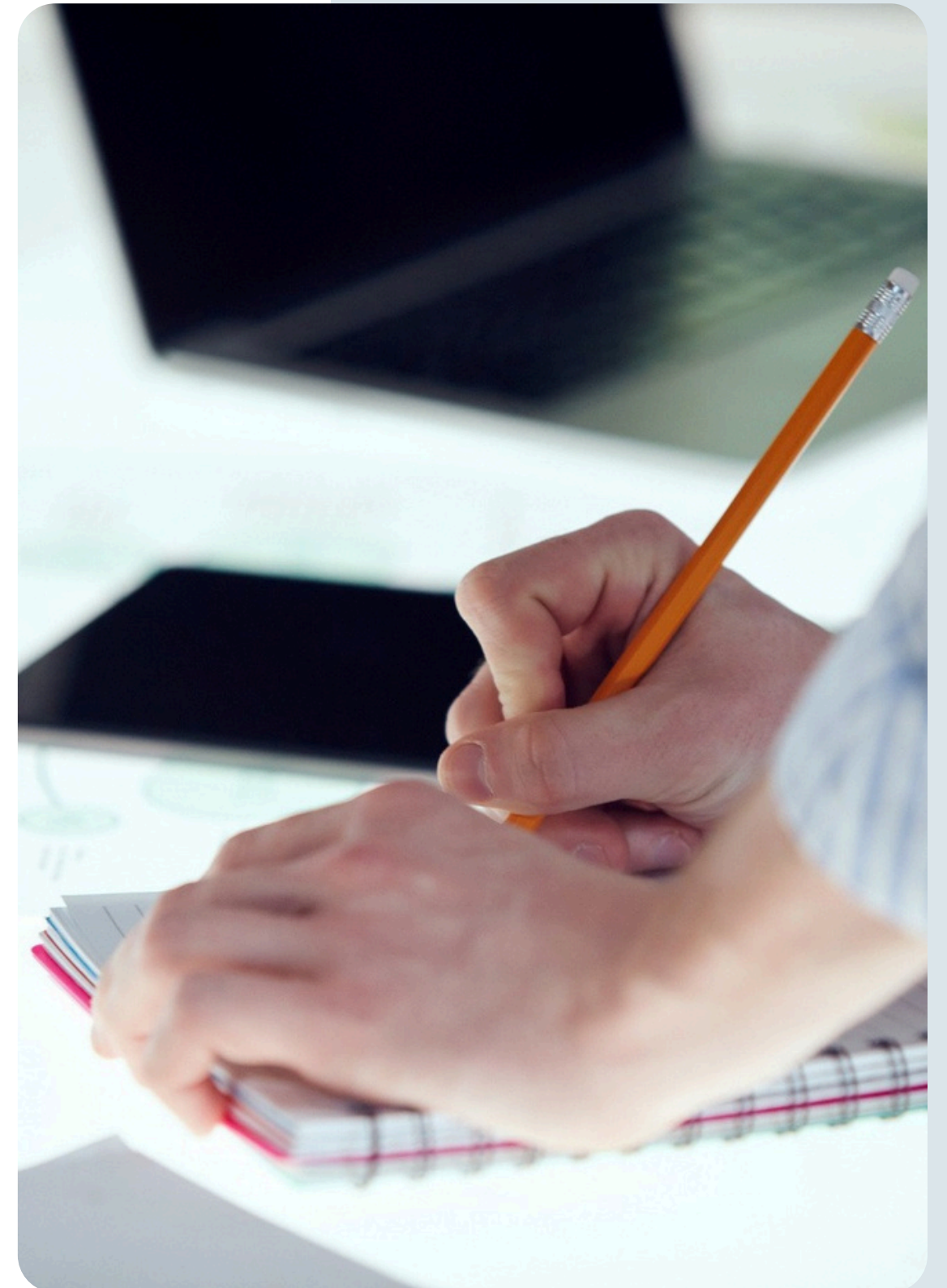
- Business communication involves sharing information within and outside the organization to achieve goals and foster relationships.
- It includes written, verbal, and digital methods, requiring clarity, listening, and adaptability.

## **Personality Development:**

- Personality development involves improving character, behavior, communication skills, and emotional intelligence for personal and professional growth.
- It focuses on building self-confidence, enhancing relationships, and developing a positive mindset.

## **Interview Training:**

- Interview training helps you prepare for job interviews by improving communication, answering techniques, and showcasing your strengths.
- It focuses on building confidence, handling common interview questions, and mastering professional body language



# *Our Placed Students*



**Lakshya  
Jonwal**



**Vikram  
Rathod**



**Vansh**



**Arpan  
Dewadi**



**Sahil  
Maan**



**Anuj**



# Our Hiring Partners

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# Get in Touch with us.



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"Get in touch with us today to learn more and take the next step toward success!"



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*Join us for  
Better Future*

