



National Institute of Electronics & Information
Technology Near IIT Patna, Amhara, Bihta,
Patna(Bihar) -801106

Details of the Course

Name of The Course: Industrial training & Internship in Generative AI

Duration (in Hrs.): 40(4 weeks)

Fee (in Rs.): Rs 1983/-

Eligibility: Diploma/B.Sc./B.Tech/ In Electronics, Electrical, Instrumentation Engineering, Computer Science, IT or its equivalent/BCA/MCA. (Completed or Pursuing).

Course Content:

Sl . No	Topic	Subtopic	Duration(in Hrs)
1	Fundamentals of AI	Introduction to machine learning and AI, AI Terminology, The Necessity of Learning AI, Goals and applications of AI, AI issues, concerns and Ethical AI, Impact of AI on society, Ethical concerns and responsible AI use, Bias in AI algorithms, AI future, Generative AI, Prompt Engineering, Technologies driving the rise of AI	10
2	Generative AI	Generative vs. Discriminative models, Why Generative models? Txt2txt and Language models, Statistical Language Models (SLM), Neural Language Models (NLM), Seq2seq models, Use cases, Software Development, GenAI Chabot, Working of AI Chatbots, Popular AI Chatbots, ChatGPT, and its working, How to use ChatGPT, Usecases of ChatGPT for various users, Role of AI in Image Generation, Image Sourcing Vs, Image Generation, Popular AI tools for Image Generation. Generative Videos, AI Tools in Video Making, Popular AI Video Makers, Generative Codes, Role of AI Tools in Programming, Copilot by GitHub, Working of Copilot, Generative Adversarial Nets (GANs), Generating images from GANs, Training GANs, CLIP	20
3	Prompt Engineering	What is a Prompt? Elements of a Prompt. Tips for Designing	10

		Prompts, Example prompts for various use cases, Prompt Priming, Zero, One, and Few Shot prompting, Chain of Thought Prompting, Tabular Prompting, Ask before answer, Perspective, Reverse and comparative prompting,	
4	LLM	Understanding Large Language Models (LLMs), BERT, GPT, Evolution of ChatGPT, use cases, Data Privacy for the ChatGPT World, OpenAI API, Creating custom ChatGPT like App, Google Bard, CLAUDE	10