

GenAIBIZ



ZETLAN TECHNOLOGIES
www.zetlantech.com

Online Course

Course Modules

Identify AI Fundamentals

1. Define fundamental AI terms and concepts.

- Artificial Intelligence
 - General vs. narrow AI
 - Recent history/timeline
 - Enabling technologies
- Machine Learning
 - Algorithm vs. model
 - Datasets
 - Approaches (supervised vs. unsupervised)
- Deep Learning
 - ANN
 - Network parameters/weights
 - Hyperparameters
 - Applications
 - NLP
 - Computer vision
- Model checkpoints

Zetlan Technologies



ZETLAN TECHNOLOGIES

2. Define generative AI terms and concepts.

- Generative AI
 - Key organizations
 - Key resources

- Generative AI modalities

- Text
- Code
- Images
- Video
- Audio
- Multimodal

- Generative AI approaches

- GAN
- VAE
- GPT
- Diffusion
- RLFH

- Prompting

- Prompt engineering
- In-context prompting

- Fine-tuning models

- API access



Solve Business Problems with AI-Generated Content

3. Generate text using AI.

- LLM
- Tokens
- Approaches
 - Text generation
 - Text completion
 - Chatbots
 - Speech to text
 - Transcription
 - Assistive AI with text outputs
- Prompt engineering for text generation
- Fine-tuning text models
- Common text generation tools
 - OpenAI GPT models
 - ChatGPT
 - Bard
 - LLaMA
 - Microsoft 365 Copilot
 - Duet AI
 - Whisper



- Business use cases
 - Customer service
 - Online ordering systems
 - Marketing campaigns
 - Information summarization
 - Information mining and inference
 - Language translation
 - Interviews and onboarding

4. Generate code using AI.

- Approaches
 - Code generation
 - Code completion
 - Code refactoring
 - Code testing
 - Code debugging
 - Code commenting and documentation
 - Assistive AI with code outputs
- Prompt engineering for code generation
- Fine-tuning code models
- Common code generation tools

Zetlan Technologies



ZETLAN TECHNOLOGIES

- OpenAI Codex
- GitHub Copilot
- Amazon Code Whisperer
- Duet AI
- CodeT5
- Code Gen
- Business use cases
 - Rapid/agile development
 - Project management
 - DevOps
 - Proof of concept
 - Software prototyping
 - QA
 - Performance optimization
 - Software security

Zetlan Technologies

5. Generate images and video using AI.

- Image approaches
 - Text to image
 - Image to image
 - Image editing and inpainting
 - Image control
 - Image upscaling
 - Assistive AI with image outputs



ZETLAN TECHNOLOGIES

GenAIBIZ

- Video approaches
 - Text to video
 - Image to video
 - Text + image to video
 - Video to video
 - Frame interpolation
 - Video customization
 - Assistive AI with video outputs
- Prompt engineering for image and video generation
- Fine-tuning image and video models
- Common image generation tools
 - DALL·E
 - Craiyon
 - Midjourney
 - Stable Diffusion
 - Dream Booth
 - Imagen
- Common video generation tools
 - Synthesia
 - Rephrase Studio
 - Make-A-Video
 - Runway

Zetlan Technologies



ZETLAN TECHNOLOGIES

- Business use cases
 - Business use cases
 - Promotional materials
 - Press releases
 - Training materials
 - Games/virtual worlds
- Corporate branding
- Data visualization
- Product design and prototyping
- Website and app styling
- Product listings
- Medical imaging and diagnostics

6. Generate audio using AI.

- Approaches
 - Text to audio
 - Audio to audio
 - Audio editing and cleaning
 - Assistive AI with audio outputs
- Prompt engineering for audio generation
- Fine-tuning audio models
- Common audio generation tools

Zetlan Technologies



ZETLAN TECHNOLOGIES

GenAIBIZ

- Business use cases
- Audio assets
 - Promotional materials
 - Press releases
 - Training materials
 - Games/virtual worlds
 - Voiced chatbots/assistants
 - Accessibility
 - Localization
 - Language learning



Zetlan Technologies



ZETLAN TECHNOLOGIES

Identify Generative AI Challenges

7. Identify shortcomings of generative AI.

- Confabulation/hallucination
- Misinformation and misleading content
- Cost
 - Monetary cost of implementation
 - Training time cost
 - Output time cost
- Lack of fine-tuned control
- Limitations of training data
- Hardware requirements
- Reliance on external factors
 - Cloud services
 - Foundational models
- Industry-specific risks
- Adversarial vulnerabilities



8. Identify ethical risks of generative AI.

- Privacy issues
- Accountability issues
- Transparency/explainability issues
- Bias/discrimination issues
- Safety/security issues

9. Identify business concerns of generative AI.

- Governance
- Employee impact
- Future of work
- Operational risks
- Data risks
- Brand reputation/consumer trust risks
- Legal issues
- Intellectual property/copyright
- AI laws and regulations

Zetlan Technologies



ZETLAN TECHNOLOGIES

Implement Business Strategies for Generative AI

10. Apply best practices for implementing generative AI

- Project factors

- Scope

- Strategy

- Objectives

- Goals

- Requirements

- Alignment with initiatives

- Organizational initiatives

- ESG initiatives

- Ethics and compliance initiatives

- Acquisition

- Resources

- Job expertise

- Education

- End users

- Employees

- Selection of generative AI

- Modalities

- Tools



For Enquiry: +91 8680961847

- IT strategy and infrastructure
 - Data and tools used in fine tuning
 - Tech stack for implementing generative AI
 - Cloud vs. on-premises resource allocation
- Change management
 - Change agents
 - Knowledge translators
 - Humans in the loop
- Prototyping

11. Evaluate the results of generative AI projects.

- Business analyses
 - Business impact analysis
 - Comparative analysis
- User feedback
 - Collection
 - Analysis
- Usage of generative AI systems
 - Monitoring
 - Analysis
- KPIs
- Adverse results from generative AI systems
 - Project limitations
 - Undesirable outcomes

Zetlan Technologies

Free Advice: +91 9600579474

www.zetlantech.com



**LEARN
REMOTELY!!**

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.



ZETLAN TECHNOLOGIES
www.zetlantech.com

For contact: +91 8680961847
+91 9600579474

