

Open AI ChatGPT Course Content

Section 1: Introduction To Open AI And ChatGPT

- Emergence of ChatGPT
- What is ChatGPT?
- History of ChatGPT
- How does ChatGPT work?
- Applications of ChatGPT
- Google vs ChatGPT
- Introduction to OpenAI and its Role in NLP and AI
- Overview of OpenAI's GPT models (e.g., GPT-2 and GPT-3)
- Environment setup
- Sign up for an OpenAl API account

Section 2: Business Use Cases of ChatGPT

- Using ChatGPT for live coding
- Build, optimize, and scale business using ChatGPT
- Advanced SEO for digital marketers
- Creating social media posts with ChatGPT
- Using ChatGPT for language translation
- Using ChatGPT for YouTube scripts
- Code generation and code debugging with ChatGPT
- Content creation with ChatGPT
- Question answering
- Sentiment analysis

Section 3: Developing Web Application using ChatGPT

- Building web development architecture
- Building backend server
- Setting up the database
- Setting up a React-based client-side application
- Writing user API requests to MongoDB with Express and React
- Fetching and updating the database with MongoDB API and routing with **Express**
- Routing to React-based client-side application
- Debugging and client-side coding

Section 4: Deploying and Integrating ChatGPT in Business Applications

- Create serverless ChatGPT
- Integrate ChatGPT with Power Automate
- Integrate ChatGPT with Power Apps



- Integrate ChatGPT with Outlook
- Integrate ChatGPT with Bubble
- Integrate ChatGPT with Airtable
- Deployment on cloud platforms

Section 5: GPT Models, Pre-processing and Fine-tuning ChatGPT

GPT Models:

- > Introduction to GPT models
- GPT-1, GPT-2, and GPT-3 models
- How GPT models work
- Limitations of GPT models
- Comparison with other language models (e.g., BERT, ELMo)

Pre-processing:

- Text pre-processing techniques (e.g., tokenization, stemming, stop word removal)
- Data cleaning and normalization
- Data augmentation techniques
- Handling missing data
- Encoding text data for machine learning models

Fine-tuning ChatGPT:

- Introduction to fine-tuning
- Preparing data for fine-tuning
- Choosing the right hyperparameters
- Evaluating fine-tuned models
- Fine-tuning for specific applications (e.g., chatbots, language translation, sentiment analysis)

Section 6: Uses of ChatGPT

- Using ChatGPT for Communication
- Using ChatGPT to Write Social Media Posts
- Using ChatGPT to Write Blog Articles
- Using ChatGPT to Generate a Book Outline
- Using ChatGPT to Write Podcast Scripts
- Using ChatGPT for Career Advancement
- Using ChatGPT to Improve Your Resume
- Using ChatGPT to Write Job Search Emails
- Using ChatGPT to Write Tailored Cover Letters



- Using ChatGPT for Search Engine Optimization (SEO)
- Using ChatGPT to Write Job Search Emails
- Using ChatGPT to Prepare for Job Interviews

Section 7: Using ChatGPT for Basic Coding

- Introduction to Basic Coding
- Using ChatGPT to Display 'Hello World' in Different Coding Languages
- Using ChatGPT to Explain What
- Code Does and Create Code Comments
- Using ChatGPT to Create a Basic Webpage in HTML
- Using ChatGPT to Style Your Webpage

Section 8: ChatGPT for Technology

- > Introduction
- Using ChatGPT to Overcome Technical Issues
- Using ChatGPT to Overcome Compatibility Issues
- Using ChatGPT to Strengthen Security
- Using ChatGPT to Navigate Complex Software and Applications
- Using ChatGPT to Translate Technical Jargon

Section 9: ChatGPT Complete Course - Learn ChatGPT & Prompt Engineering

- Cracking the Code Introduction
- Translating Code to Human-Readable Text
- Using ChatGPT for Code Completion
- Using ChatGPT for Debugging Code
- Translating Code from One Language to Another
- Using ChatGPT for Regular Expression Regex

Section 10: ChatGPT Prompt Engineering and Design

- Introduction about Prompt Engineering and its design
- ChatGPT Prompt Engineering and Design Overview
- Going Deeper with Prompts Effective Prompt Design with the Help of ChatGPT
- Concise vs. Verbose Spectrum of Responses
- Mass Prompting in ChatGPT

Section 11: LLM(Large Language Models) ChatGPT

- Introduction to LLM (Large Language Models)
- Application through Production
- Foundation Models from the Ground Up



Section 12: Neutral Networks

- Introduction to Neutral Networks
- Uses of Netural Networks in ChatGPT

Section 13: Working with Open AI and ChatGPT API

- Introducing the Playground
- Understanding semantic search
- Understanding APIs
- Getting familiar with HTTP
- Reviewing the OpenAl API endpoints
- Introducing CURL and Postman
- Understanding API authentication
- Making an authenticated request to the OpenAI API
- Introducing JSON
- Using the Completions endpoint
- Using the Semantic Search endpoint
- Working with GPT-3 API
- Implementing ChatGPT API

Section 14: Working ChatGPT - 3 (Self-Paced)

- Introduction to GPT-3 and its capabilities
- Democratizing NLP
- Understanding prompts, completions, and tokens
- Understanding GPT-3 risks
- Understanding general GPT-3 use cases
- Content filtering
- Sentiment analysis using GPT-3
- Text summarization using GPT-3
- Question answering and information retrieval
- Handling text generation and classification tasks

Section 15: Advanced ChatGPT Development Techniques

- Advanced ChatGPT Development Techniques Introduction
- Using ChatGPT to Generate Sample Data
- Using ChatGPT to Create a Python Fake Data Generator
- Generating Website Ideas with ChatGPT
- Building Webpages in HTML with ChatGPT
- Integrating ChatGPT with Visual Studio Code
- Creating Algorithms with ChatGPT
- Creating Batch Apex with ChatGPT



- Using ChatGPT to Write a SQL Query
- Using ChatGPT to Create Games in Python

Section 16: Building and Deploying GPT-3 Powered Application

- Introduction to building and deploying GPT-3 powered applications
- Overview of GPT-3 APIs and SDKs
- Choosing the right programming language and environment for your application
- Setting up the GPT-3 API and integrating it into projects
- Building conversational AI for finance and e-commerce domain
- Strengths and limitations of GPT-3 in building conversational AI
- Monitoring and scaling the application
- Building custom prompts and fine-tuning GPT-3 models for your application
- Security and privacy considerations when working with GPT-3
- Best practices for building and deploying GPT-3 powered applications
- Scaling and deploying GPT-3 models to production

Section 17: Building Real-world Applications with OpenAI and ChatGPT

- Build and deploy the ChatGPT Al app
- Build a diet planning application
- Build a website and create landing page content using ChatGPT

Section 18: ChatGPT: Best Practices

- Data cleaning and preparation techniques
- Choosing the right hyperparameters
- Evaluating model performance
- Using pre-trained models and fine-tuning
- Managing bias and ethical considerations
- Creating diverse and representative training data
- Building user-friendly interfaces for chatbots and virtual assistants
- Handling user data and privacy concerns
- Debugging and troubleshooting common errors
- Continuous model monitoring and updating.

Section 19: ChatGPT: Limitations

- > Training data quality and quantity
- Generalization and transfer learning
- Understanding and mitigating model bias
- Explainability and interpretability
- Scalability and speed of inference
- Support for low-resource languages and dialects



- Interoperability with other models and APIs
- Adversarial attacks and security concerns
- Availability and accessibility of computational resources.

Section 20: ChatGPT: Avenues for Future Development

- Multi-modal models for text, image, and audio processing
- Multi-task and meta-learning approaches
- Advanced transfer learning and self-supervised techniques
- Integrating knowledge graphs and semantic web technologies
- Addressing ethical and social issues in natural language processing
- Designing models for personalized and adaptive user experiences



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