



ChatGPT Essentials for Data Analytics

AI and Data Analytics

About The Course

This 1-day course is designed to seamlessly integrate traditional analytics with the innovations of AI, this course offers a solid understanding of AI-driven analytics and their impact on business. By combining theoretical knowledge with practical exercises, participants will be ready to harness the power of AI in data-driven decision-making, fine-tuning business strategies, and keeping a competitive edge in the current digital age. Suitable for industry professionals, academics, or those with keen interest, this course is your gateway to the next frontier in analytics.

Duration: 1 day

Class size: 10 students max

Times: 9:00am - 5:00pm

Price: Refer to our website for current course and package pricing

After the course?

Each student will receive:

- Certificate of completion
- Training manual
- 12 months FREE email support
- FREE class re-sit (if necessary)

Who Should Do This Course?

This course is an ideal fit for a diverse audience, from beginners to those with a grounding in data analytics. Whether you're a business professional seeking to harness AI-driven insights, a student aiming to position yourself at the forefront of technological advancements, or an enthusiast curious about the synergy of AI and data analytics, this course caters to your needs. This course offers a welcoming entry point for beginners, while its depth ensures that even those with experience find fresh insights and perspectives.

Prerequisites

The primary tool we'll use in this course is ChatGPT Plus and Google. Therefore, it is essential to bring your own ChatGPT Plus subscription account and a free Google account to the class. This will allow you to participate in interactive sessions, hands-on exercises, and real-time queries, maximizing your learning experience from this course. A good understanding in using excel functions such as VLOOKUP and Pivot table and familiarity with interface and navigation of Microsoft Power BI tool is also recommended.

Content

Unit 1: Understanding AI and Data Analytics

- Overview of AI and Data Analytics
- Historical Development and Evolution of AI
- Importance of AI in Business Context
- Addressing Common AI Myths and Misconceptions
- Challenges and Limitations of AI

Unit 2: AI Applications in Business

- Overview of AI Applications across Business Sectors
- AI Technologies Pioneering Business Innovation
- Influence of AI on Business Strategy and Operations
- Case Studies: Best Practices from Successful AI Implementations
- Potential Pitfalls in Business AI Integration

Unit 3: Introduction to LLMs and ChatGPT

- Introduction to Large Language Models (LLMs)
- Unveiling OpenAI's GPT Series
- Comprehensive Look at ChatGPT
- Tailoring ChatGPT Responses
- Business Applications of LLMs and ChatGPT

Unit 4: Learning Prompt Engineering

- Crafting Effective Prompts
- Persona Pattern
- Question Refinement Technique
- Audience Persona Technique
- Flipped Interaction Strategy
- Educating the Model: Few-Shots Prompts
- Interactive Gameplay for Prompt Engineering
- Template Design Pattern
- Recipe Formation Pattern
- Alternative Approaches and Techniques
- Using the Outline Method
- Fact Verification Techniques
- Best Practices in Prompt Engineering

Unit 5: ChatGPT for Excel and Google Sheets

- Mastering Excel Functions
- Formulating Complex Formulas
- Automating Tasks through VBA
- Generating Sample Data Sets
- Transitioning from Excel to Google Sheets
- Implementing Conditional Formatting
- Automation with Google App Scripts

Unit 6: ChatGPT for Power BI

- Crafting a Comprehensive Data Dictionary
- Calendar Table Creation
- Incorporating Fiscal Years
- Solving Coding Problems in M Language and DAX
- Code Formatting and Optimization
- Introduction to DAX
- Generating DAX formulas
- Visualization Tips and Tricks

Unit 7: ChatGPT for Python and SQL

- Generating Python Scripts
- Collaboration with Google Colab
- Advanced Data Visualization Techniques in Python
- Grasping Core SQL Principles
- Producing SQL Scripts

Unit 8: ChatGPT with Data Analytics

- Data Operations: Extract, Fill, Visualize, Resolve
- Presentation Crafting Techniques
- Conflict Identification and Resolution
- Advanced Data Grouping and Cleaning
- Detecting Data Outliers
- Graphics-aided Nutritional Content Display
- Techniques for Fraud Detection
- Efficient Data Organization
- Image Editing and Catalog Production
- Product Categorisation with AI

Unit 9: ChatGPT Plugins

- Activating Plugins in ChatGPT
- Delving into Plugin Processes
- Internet Access Techniques
- Role of an AI Data Analyst
- Fetching and Analyzing Quotes
- Current Trend Visualization

Unit 10: Enhancing Interaction: ChatGPT's Multimodal Features

- Connecting ChatGPT to the Internet
- ChatGPT's Audio-Visual Capabilities
- Engaging in Voice Dialogues with ChatGPT
- Image-based Task Interaction
- Introduction to DELLE within ChatGPT
- Ethical Considerations Surrounding ChatGPT

Unit 11: Data Visualization with AI Tools

- Exploring Midjourney
- Deep Dive into DALL-E-2
- Initiating Projects with Stable Diffusion
- Crafting Images with Bing Image creator
- Navigating Microsoft Designer

Unit 12: Data Analytics Assistant

- Auto-Generating Tailored Prompts
- Designing a Personalized Chatbot
- Extracting Insights from Excel
- Introduction to Monica: The New AI Assistant
- Business Task Assistance
- Querying Data from PDFs
- Problem-Solving with Data Notebooks
- Making Presentations with Just a Few Clicks

Unit 13: Power BI Playground

- Exploring Microsoft Power BI Embedded Analytics Playground
- Showcase Navigation Tips
- Transitioning from Insights to Actionable Steps
- Report Theme and Layout Customization
- Crafting Personalized Visual Displays

Unit 14: Leveraging AI Tools

- Comprehensive AI tools Dictionary
- Exploring Text-Based AI Instruments
- AI-Aided Coding Tools
- Generative Image Tools
- Enhancing Communication with AI Tools

Looking for course dates?

To view a full list of course dates, please visit our website at www.dynamicwebtraining.com.au

Alternatively please contact our office on **1300 888 724**