

ChatGPT Workshop for Data Professionals

8 academic hours

Overview:

At the end of 2022, ChatGPT stormed into our lives. This was the first step towards making AI accessible to the masses. With the excitement it brought to our lives of having the ability to ask questions and receive fast answers on specific topics, came a fear of a change in data-related employment options and the possibility that ChatGPT would replace some positions. In our workshop, we will learn how to utilize ChatGPT's capabilities to our own benefit to perform our data-related positions better.

In the first section, we will begin by understanding what Generative AI is, as well as what language models are. Additionally, we will explore chat terminology to build a comprehensive understanding of the technology.

In the second section, we will focus on the essence of prompting, context, and conversation with ChatGPT. We will learn the principles of Prompt Engineering and develop a prompt mindset when conversing with ChatGPT. Our aim is to improve ChatGPT responses by using Prompt Engineering and optimize outputs with precision.

In the third section, we will discuss how ChatGPT assists data professionals. We will explore the benefits of asking ChatGPT data-related questions, when we should ask these questions, and what types of questions ChatGPT can assist us with. We will explore how to utilize ChatGPT to enhance our everyday tasks as data professionals. Specifically, we will focus on the implications for SQL and Python tasks and skills. Our goal is to enable Data Professionals to run their everyday tasks more efficiently. In the SQL section, we will cover how to create a database from scratch, optimize queries, and even instruct ChatGPT to write queries from scratch. We will also address other necessary but less enjoyable tasks that data professionals must tackle. In the Python section, we will explore how to generate data from scratch, optimize code, and perform code testing. Our goal is to enhance our Python skills and improve time management. Additionally, we will learn how to convert code from one programming language to another.

In the fourth section, we will shift our attention to content curation. We will explore how to create compelling content, write posts and emails, and enhance our online presence on platforms like LinkedIn as data professionals by using ChatGPT. We will also explore how ChatGPT can improve our content, proofread, and fix grammar mistakes.

Who Should Attend:

This workshop is relevant for data professionals from all disciplines, including Data Scientists, Data Engineers, Data Analysts, Business Analysts, and BI developers who are seeking to better understand ChatGPT, its capabilities, and its limitations for assisting with everyday tasks.

Required Skills:

- Experienced Data Engineers / Data Analysts / Data Scientists / BI Developers or any other Data related field with a solid background in SQL or Python

Course Contents:

Section 1: Intro to ChatCPT and Generative AI

- Intro Generative AI
- Intro to Language Models
- Intro to OpenAI and ChatGPT
- Common Chat Terminology

NAYA College

מדינת היהודים 60, כניסה A, קומה 2, הרצליה | טלפון: 0732865544 | פקס: 0732865417

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Section 2: ChatGPT conversation principals

- Start conversation with ChatGPT
- Develop a prompt mindset
- Improve your responses by using Prompt Engineering

Section 3: ChatGPT for Data Professionals

- SQL:
 - How to use ChatGPT to create database
 - How to Use ChatGPT to write queries
 - How to Use ChatGPT to optimise queries
 - How to Use ChatGPT to generate data
 - How ChatGPT can explain what a query does
 - How ChatGPT can assist with writing comments and documentation
- Python:
 - How to Use ChatGPT to write a code / Functions
 - How to Use ChatGPT to optimise code functionality
 - How to Use ChatGPT to generate data
 - How to write tests using ChatGPT
 - How to handle errors using ChatGPT
 - Translate one language into another using ChatGPT

Section 4: Content Curation

- Generate content (posts, emails, etc..) using ChatGPT
- Proofread and fixing grammar with ChatGPT

Section 5: Conclusion and Q&A

- Recap of key takeaways
- Opportunity for participants to ask questions and discuss their experiences using ChatGPT.