



Become a Data Analyst with the UIC Data Analytics Bootcamp

- Receive immersive, live online instruction
- Learn top tools like Tableau, SQL, and ChatGPT
- Graduate with a portfolio of projects
- Get job search support to help you get hired



Curriculum

Business Analytics with Excel

Become a power Excel user by learning how to use advanced features.

- Conditional formatting and important functions
- · Analyzing data with pivot tables
- Statistics in Excel
- Macros and Power Query

SQL: Data Acquisition and Manipulation

Design, learn, and apply the Structured Query Language (SQL) for database definition and manipulation.

- · SQL databases and tables
- SQL operators, constraints, and data types
- SQL JOINs, set operators, and subqueries
- SQL window functions and views

ETL (Extract, Transform, and Load) Data Processes Integrate data from multiple sources into one data set to prepare it for storage.

- ETL fundamentals using AWS Glue
- Data source identification, extraction, and transformation
- ETL tools and technologies

Data Visualization
Using Tableau

Create and optimize highly interactive data visualizations using Tableau.

- · Tableau charts, dashboards, and stories
- Data preparation, filtering, and analytics in Tableau
- Advanced Tableau Desktop features

Please note that this is a sample curriculum and is subject to change.





Curriculum

Fundamentals of Python Programming	Learn to use Python to build and manage data structures.	 Conditional statements, loops, and functions Object-oriented programming (OOPs) and threading
Data Analytics with Python	Apply Python programming toward analyzing, wrangling, and visualizing data.	 Linear algebra in Python Statistics in Python Data analysis, wrangling, and visualization using Python libraries—including NumPy and Panda
Essentials of Generative Al	Gain in-demand generative Al skills using top tools like ChatGPT, Google Gemini, and more.	 GenAl functionality, prompt engineering, and ethics Al use cases for data analysis and storytelling
Applications of Generative Al in Data Analytics	Explore how to use AI in data analytics to aid data discovery, exploration, and visualization.	 ETL and data modeling automation with AI AI transformation in data visualization
Ethics in Data Analytics	Understand the ethical implications of data practices—from privacy and consent to data bias.	 Legal frameworks and data privacy Informed consent principles Ethical obligations of data professionals
Capstone Project	 Prepare to thrive in the field by completing a Capstone Project to show employers Use the data tools taught in the program (Excel, SQL, AWS Glue, Tableau, and Python) to demonstrate your skills with a real-world final project 	
Career Success Services	 Build a technical resume and craft cover letters Optimize your LinkedIn profile Network within the industry 	

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