QUICKSTART

Over 35 years in Technology Education

Data Analytics & Visualization Bootcamp

CURRICULUM GUIDE - 2025

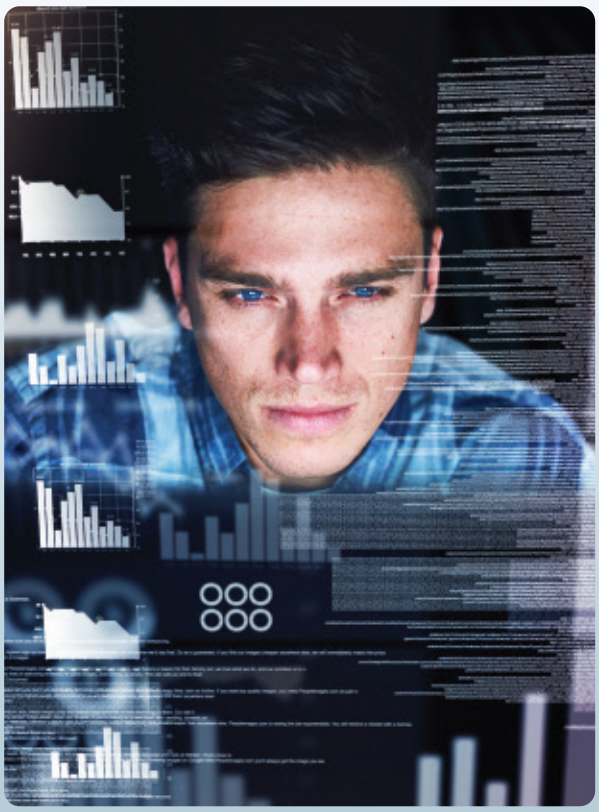
Why Study Data Analytics & Visualization?

Elevate your career with our industry-recognized certification prep bootcamp in Data Analytics & Visualization. Even though the world has access to more data today than ever, making sense of the information around us requires a keen understanding of the tools to bring order to data, communicate it in a visual format, and attach meaning to the data.

Designed in collaboration with industry experts, hiring managers, and data analysis experts, our curriculum offers you curated training in the latest tools to pursue targeted job roles in the data analytics field. Our data analytics and visualization bootcamp is an accelerated program both for those interested in making a career change and for IT professionals who want to advance their careers and thrive in a fast-growing IT space.

Who Is This Bootcamp For?

Designed for entry-level and experienced IT professionals alike, this bootcamp offers hands-on training in the latest data skills to prepare you for IT roles such as Power BI Analyst and Data Analyst.



The data analytics and visualization bootcamp offers new insights and perspectives within the field, training in industry-aligned skills, and the technical expertise to accelerate into a new career path.

Entry and junior-level IT professionals will benefit from coursework focused on preparing individuals to take and pass the **Microsoft Certified: Power BI Data Analyst Associate (PL-300)** exam.

Course Structure

Designed to empower working professionals with the skills to thrive in the dynamic data analytics field, our program offers the flexibility and interactive instruction online learners need. Our hybrid learning model combines independent learning modules and live, instructor-led class time.

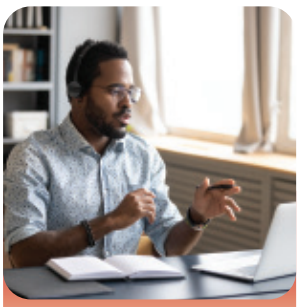
The **part-time option,** spanning 18 weeks, offers a balanced approach to virtual learning. Part-time students learn through predominantly asynchronous course content, complemented by live class sessions.

The **full-time option** condenses the program into an intensive 10-week period and features more synchronous class sessions to enhance real-time interaction and engagement.

The data analytics and visualization bootcamp requires an average minimum commitment of 20-25 hours per week for the part-time program option. Students enrolled in the full-time program can expect to spend at least 35-40 hours per week in class and 8-10 hours per week on assignments and independent study.

Projects and Assignments

Your portfolio signals to employers that you possess the technical skills of expertly extracting and cleaning data to create beautiful visualizations when presenting findings to stakeholders. Throughout your bootcamp, you will build a substantial portfolio of projects that demonstrate your proficiency in the leading data programs and tools.



Career Simulations

As a bootcamp student, you will be paired with another student to encourage peer-to-peer collaboration. These projects will challenge students to collaborate, encouraging technical skill development and communication and teamwork skills. Students will complete two career scenario-based projects that model on-the-job situations and one final career simulation at the program's end.

Virtual Hands-On Lab Experiences

When it comes to mastering new technical skills, the best way to learn is by doing. Your data courses will feature several lab assignments that allow you to apply concepts in a virtual hands-on "sandbox environment" that provides a controlled and secure space for students to experiment without the risk of causing damage or compromising actual systems. Sandbox assignments allow you to build confidence and proficiency in real-world scenarios.

Dedicated Certificate Preparation

Our bootcamp includes dedicated certification preparation during the final weeks of the program, designed to help students review and solidify data analytics and visualization skills prior to taking the industry-aligned Microsoft Power BI Data Analyst certification exam. This intensive phase includes mock exams and targeted review sessions, ensuring students are well-equipped and confident to pursue relevant certifications in data analytics and visualization upon completion of the bootcamp.

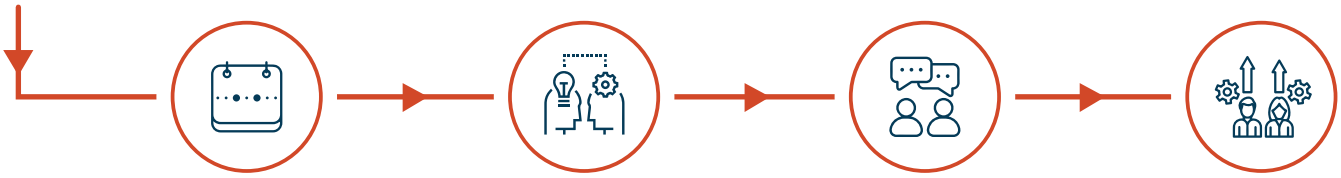
This certification serves as an entry point to a data career for candidates from non-IT backgrounds. Earning this certification validates high-level understanding meaningful business value through easy-to-comprehend data visualizations and enables others to perform self-service analytics while deploying and configuring solutions for consumption.

By pursuing the QuickStart Data Analytics & Visualization Bootcamp, students not only prepare to ace the Microsoft Power BI Data Analyst certification exam but do so at an incredible value.

Certification	Preparation Provided	Course Cost Included	Exam Cost Included
Microsoft Power BI Data Analyst (PL-300)	Exam preparation, targeted review sessions, mock exams	$1,995	$165

Student Support Services

Our bootcamp offers comprehensive student support services to enhance the learning experience. Students benefit from weekly live sessions, serving as virtual office hours or dedicated class time, facilitating real-time interaction with instructors. Additionally, the program offers personalized 1:1 mentoring sessions, allowing students to seek guidance and clarification up to 10 times throughout the program. To ensure continuous support, a 24/7 AI tutor is available, offering around-the-clock assistance through an AI bot. These robust support mechanisms aim to foster a supportive learning environment and help students succeed in mastering data analytics and visualization skills.



Career Services

You will have access a suite of resources, including a career services platform featuring job opportunities and a talent portal where hiring organizations can contact you, resume review and feedback, assistance updating your LinkedIn profile, mock interviews, and guidance on how to market your new data analytics and visualization skills. Our team will also help you develop a portfolio for prospective employers and identify job opportunities. You will also have the opportunity to schedule individual coaching sessions when needed.

Career Outcomes

Completing an industry-aligned bootcamp and earning in-demand certifications opens the door to your IT career in data analytics, a field projected to grow 23% by 2031 (U.S. Bureau of Labor Statistics, 2024). Explore the top IT roles our program can help you prepare for in 10-18 weeks.

Role	Experience	Average Salary
Database Administrator	Entry-level role	$89,000
Data Analyst	Experienced	$190,000

Source: Talent.com, 2024

QuickStart bootcamp students who have completed the program are employed by notable organizations across the country, including:

American Airlines	Apple	AT&T	Berkshire Hathaway
Capgemini	Charles Schwab	Cognizant	Cisco
Fidelity	Fiserv	General Electric	General Motors
Home Depot	Meta	Norton Lifelock	Oracle
Revature	Shake Shack	Skillstorm	Tesla

Curriculum Overview

Course	Week		Learning Outcomes
	Full-time option	Part-time option	
Introduction to Data Analytics and Visualization	1	1	This course will introduce the fundamentals of the data analysis process of gathering, cleaning, analyzing, and sharing insights.
Analyzing and Visualizing Data with Excel	2	2-3	In this course, students will learn to clean and transform raw data using Excel's built-in functions and tools to design and build interactive dashboards. Based on the quantitative insights derived from their analysis, students can then make data-driven decisions.
Data Analytics - Career Simulation 1	3	4	For the first project, students will be creating an exploratory data analysis report using Excel. The objective is to generate a report from the perspective of a data scientist and prepare it for further analysis within Excel. This project will help students gain practical experience in data analysis and reporting.
Analyzing and Visualizing Data with Power BI (PL-300)	4	5-7	In this course, learners will create efficient data models in Power BI, including relationships, calculated columns, and measures, while also designing interactive reports using visuals, filters, and bookmarks. They will also experience writing Data Analysis Expressions (DAX) formulas for custom calculations and aggressions, as well as publish Power BI reports to the cloud in order to share them securely with stakeholders.
Querying Data with SQL	5	8	This course will allow students to query and retrieve relevant information efficiently while modifying data using SQL statements like INSERT, UPDATE, and DELETE. They will also practice altering database records while maintaining data integrity, which emphasizes the importance of structured data organization for efficient querying.

Course	Week		Learning Outcomes
	Full-time option	Part-time option	
Data Analytics - Career Simulation 2	6	9	In this project, students will take on the role of a Data Analyst who is required to transform and prepare raw data using SQL for analysis and create compelling visualizations using Power BI by presenting insights from cleaned data through interactive reports and dashboards.
Microsoft Fabric	7	10-11	In this course, participants will master Microsoft Fabric to equip them with a comprehensive skillset in data analytics, encompassing data engineering, data science, real-time analytics, and business intelligence. By gaining hands-on experience with Microsoft Fabric's advanced features and workloads, students will develop practical skills that are highly sought after by employers across industry.
Data Analytics - Final Career Simulation	8	12-13	In this final project, students are required to work as a team of Data Scientists and Analysts to clean and preprocess raw data, ensuring consistency and accuracy. Teams will also collaborate on data quality checks, handling missing values, and standardizing formats to create compelling visualization and reports and present findings accordingly.
Python Basics	9	14-16	This course will allow participants to understand essential Python building blocks, including variables, data types (such as integers, floats, strings, and lists), and basic operators. Plus, students will learn to create reusable code blocks, pass arguments, and return values with Python's built-in modules and libraries for extended functionality.

Course	Week		Learning Outcomes
	Full-time option	Part-time option	
Exam Preparation for Microsoft Power BI Data Analyst (PL-300)	10	17-18	In this final unit, learners will run through practice Power BI Exams and will receive study tips to obtain the PL-300 credential. These mock exams can be taken as many times as needed. With instructor help, students will also be able to refresh and refortify their knowledge of Power BI applications and principles.