



THE UNIVERSITY OF TEXAS AT DALLAS
Erik Jonsson School of
Engineering and Computer Science



In Collaboration With
**Fullstack
Academy**

#3 Best Public University in Texas*

Data Analytics Bootcamp

Overview & Syllabus



**U.S. News & World Report*

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About the **Data Analytics Bootcamp**

The demand for skilled data analytics professionals is accelerating rapidly, driven by the global expansion of AI, big data, and digital transformation. The **World Economic Forum's Future of Jobs Report** identifies data analysts and data scientists as some of the **fastest-growing roles worldwide**, projecting a **30–35%** increase in demand as organizations prioritize data-driven decision-making and automation. According to Indeed data from 2026, the average salary for a data analyst in Dallas is approximately **\$82,909** per year.

The **UT Dallas Data Analytics Bootcamp**, in collaboration with Fullstack Academy, is designed to meet this rising demand. Through 100% live online classes, hands-on projects, integrated labs, and rigorous assessments, you will acquire in-depth skills in **Excel, SQL, Python, Tableau, Julius AI, Claude, Gemini, ChatGPT, ETL, and many more**. You'll also be building a portfolio of industry-relevant projects that demonstrate your job readiness.

Upon successful completion, you will earn a **certificate of completion from UT Dallas and Fullstack Academy**, validating your capability to craft modern data solutions.

To help you translate skills into career success, the program includes **personalized 1:1 career coaching during the bootcamp and for up to a year following graduation**. From resume and LinkedIn profile optimization, mock interviews, and access to curated job boards, you'll have the resources needed to stand out in the job market and launch a successful career in the field of data.

Key Features



Go from **beginner to tech job-ready in just 26 weeks** with no prior tech experience required.



Leverage our **comprehensive career coaching services**, featuring 1:1 coaching, resume and LinkedIn optimization, mock interviews, job search guidance, and exclusive job board access.



Join a network of success—**over 1,500 companies across the U.S. have hired graduates** from Fullstack Academy Tech Bootcamps.



Study with Fullstack Academy, a trusted trailblazer in tech education with **600+ cohorts delivered**, plus gain access to a vast network of **13,000+ alumni** who can help open doors to new career opportunities.



Pursue a high-quality bootcamp program **rated 4.8 stars out of 5** by students and alumni (Course Report).



Earn a **certificate of completion** jointly issued by UT Dallas and Fullstack Academy, validating your industry-ready skills.



Learn **generative AI-powered analytics**, using tools like ChatGPT, Gemini, Claude, and Julius AI to accelerate data cleaning, modeling, visualization, and reporting.



Gain exposure to **20+ tools and technologies** such as Excel, SQL, Python, Tableau, ChatGPT, and more.



Prepare for your tech career by engaging in **25+ real-world, hands-on projects** across various industries, culminating in a comprehensive capstone project you can use to demonstrate your skills to potential employers.



Experience **100% online instructor-led training** from industry-experienced professionals with backgrounds in data science, analytics engineering, and AI, paired with collaborative projects that mirror real workplace environments.



Learn on your schedule with this **part-time program** designed to help you transition into roles like **Data Analyst, Business Intelligence Analyst, Marketing Analyst, Reporting Analyst, or Data Scientist**.


UT Dallas and **Fullstack Academy Partnership**

3 Best Public University in Texas* ◆

The University of Texas at Dallas is a top public university located in one of the nation's fastest-growing metropolitan regions. Its seven schools offer 160 programs, plus professional certificates and fast-track programs. The university's rapid growth is fueled by bright students, innovative programs, renowned faculty, dedicated staff, engaged alumni, and research that matters.

The Erik Jonsson School of Engineering and Computer Science at UT Dallas has chosen to collaborate with Fullstack Academy on its tech bootcamps. Fullstack Academy is one of the longest-running and most reputable tech bootcamps in the nation. Its graduates are equipped to succeed in the professional world through a foundational, active-learning teaching method, which prepares students to thrive in their first job and every job after.

Bootcamp graduates also gain the assistance of the Fullstack Academy career services team and leave as members of the UT Dallas and Fullstack Academy communities—with a supportive alumni network of over 13,000 graduates that can help open doors to future career opportunities.



**U.S. News & World Report*

The Fullstack Academy **Difference**

Founded in 2012, Fullstack Academy is a pioneering and top-rated bootcamp provider that has helped over 13,000 graduates through 600+ cohorts to launch or accelerate their careers in tech.

Fullstack **Inclusion**

Fullstack can help make your career goals possible, no matter your background. We're committed to providing a welcoming, diverse, and flexible learning environment.



Fullstack **Experience**

Fullstack's rigorous curriculum focuses on the skills top-tier tech employers are seeking. Guided by passionate instructors and a caring career success team to assist with everything from interview prep to salary negotiations, you'll gain the confidence you need to build a fulfilling career.

Fullstack **Outcomes**

We're obsessed with helping our students succeed, and it shows: 1,500+ companies across the U.S. have hired our graduates — including notable companies like Google, Amazon, LinkedIn, Bloomberg, Facebook, Capital One, and many more.



Data Science & Analytics Industry Trends

The World Economic Forum's Future of Jobs Report 2025 highlights rapid growth in data analytics roles as AI reshapes industries. Growing job roles in the industry are expected to include Data Analysts and Scientists, AI and Machine Learning Specialists, and Big Data Specialists. To enable industry transformation, 96% of employers plan to upskill and reskill their workforce, and 82% intend to increase automation of tasks within work processes. Some key statistics highlighting the demand for tech expertise in today's workforce are:

\$82,909

The average salary range of a Data Analyst in Dallas in 2026 (Indeed)

40% +

The projected job growth in data analytics roles by 2030, making it one of the fastest-expanding tech careers (World Economic Forum)

89%

The percentage of data and analytics leaders who believe a strong data foundation is the most critical factor for successful AI (Salesforce)

38%

The total percentage of the data market that is expected to come from North America, making the location the eventual largest contributor to data science adoption (MindInventory)

60% (3 in 5)

The percentage of organizations in a 2025 report using data analytics to drive business innovation (Coherent Solutions)

92%

The percentage of organizations that gained measurable value from their data and analytics investments (Folio3)

Given this momentum, now is the ideal time to upskill in data analytics to stay relevant, tap into high-growth career opportunities, and remain competitive in a future driven by AI, automation, and data-powered decision-making.

Data Analytics Job Roles & Salaries

Here are sample job titles, along with their average annual salaries in the Dallas area (Indeed) and corresponding salary ranges for the broader Dallas-Fort Worth area (Glassdoor).

Job Title	Average Salary	Salary Range
Product Analyst	\$57,550	\$87,000 - \$134,000
Business Analyst	\$69,928	\$84,000 - \$133,000
Operations Analyst	\$80,118	\$71,000 - \$113,000
Marketing Analyst	\$81,084	\$71,000 - \$116,000
Data Analyst	\$82,909	\$73,000 - \$118,000
Reporting Analyst	\$88,364	\$78,000 - \$124,000
Business Intelligence Analyst	\$91,430	\$93,000 - \$141,000
Analytics Engineer	\$113,555	\$119,000 - \$179,000
Data Scientist	\$118,670	\$123,000 - \$192,000
Quantitative Analyst	\$162,370	\$144,000 - \$217,000

Fullstack Academy **Graduates' Achievements**

Top-Reported Salary: \$350,000

This is the maximum salary among graduates who have disclosed their post-bootcamp salaries.

Average Salary: \$76,038

This represents the average salary of Fullstack Academy graduates who provided post-bootcamp salaries. However, the salary increases up to \$350,000 for some graduates, depending on various factors such as skills, experience, location, and employer.

Alumni Network: 13,000+ graduates

Join over 13,000 students who have benefited from Fullstack Academy's industry-relevant curriculum and career preparation for in-demand tech roles.

Graduation Rate: 89%

This statistic is the percentage of students who have graduated from bootcamp or are close to graduation.



Prominent Companies That Have Hired Fullstack Academy Graduates:

facebook

Google

Spotify

Bloomberg

Capital One

accenture



CIS Center for Internet Security

pepsi

Booz Allen

amazon

ups

verizon

cvent

J.P.Morgan

InsightGlobal

citi

Expedia

TOYOTA

TEKsystems
Own change



WGU
WESTERN GOVERNORS UNIVERSITY

RioTinto

gm FINANCIAL



IXL
LEARNING

T Mobile

CLOUDFIT
SOFTWARE

CENTENE
Corporation

BlackRock

DATADOG

Etsy

cogent

wayfair

simon

andium

Career Success Services

Starting in the bootcamp, you'll receive guidance and tools you'll need to power your job search. **During your bootcamp and for a full year after your graduation**, you can access the Fullstack Academy Career Success Program to help achieve your desired career outcome

1,500+ companies across the U.S. have hired Fullstack Academy graduates—everywhere from large tech firms to mid-size companies and innovative start-ups. You'll also join our expansive network of alums—building lasting connections to support you throughout your career.

Our career success support includes:

- ◆ **Access to a Curated Career Success Platform:** Integrated services to build a professional profile, optimize your resume and LinkedIn profile, explore a curated job board, attend events, and connect with coaches
- ◆ **Career Practicum Lessons:** Access to step-by-step career curriculum lessons and tools
- ◆ **Workshops & Webinars:** Live and on-demand interactive sessions with Career Coaches on job search, networking, interviewing, and more
- ◆ **1:1 Career Coaching:** Personalized sessions during the program and up to 12 months after your graduation for guidance on resumes, networking, interviews, and salary negotiation
- ◆ **Alumni & Industry Events:** Panels, guest experts, and networking opportunities to expand professional connections
- ◆ **Ongoing Support:** Continuous access to resources, tools, and expert advice to support career readiness and job search

Student Testimonials



“I joined Classic Consulting & Lending as Director of Digital Operations right after my bootcamp. The program gave me the technical skills and business insight I needed to succeed and build a portfolio.”

Christina Milliken [in](#)

Director of Digital Operations,
Classic Consulting & Lending



“The bootcamp helped me gain essential coding skills like Python, SQL, and Tableau to advance in public health data analytics. The practical teaching and career support made the challenging experience rewarding.”

Divya Nagpal [in](#)

Freelance Public Health Data
Analyst & Grant Writer



“The bootcamp transformed how I approach challenges and opportunities by teaching practical SQL, Excel, and Tableau skills. Now, I apply these daily to support business decisions and visualizations at work.”

Kirubel Hirpassa [in](#)

Production Operations Technology
Analyst, O'Neil Digital Solutions



“After completing the Data Analytics Bootcamp, I joined CFA Society Chicago as a Data Associate. The hands-on learning matched my visual style and prepared me for a competitive job market.”

Paola Torres [in](#)

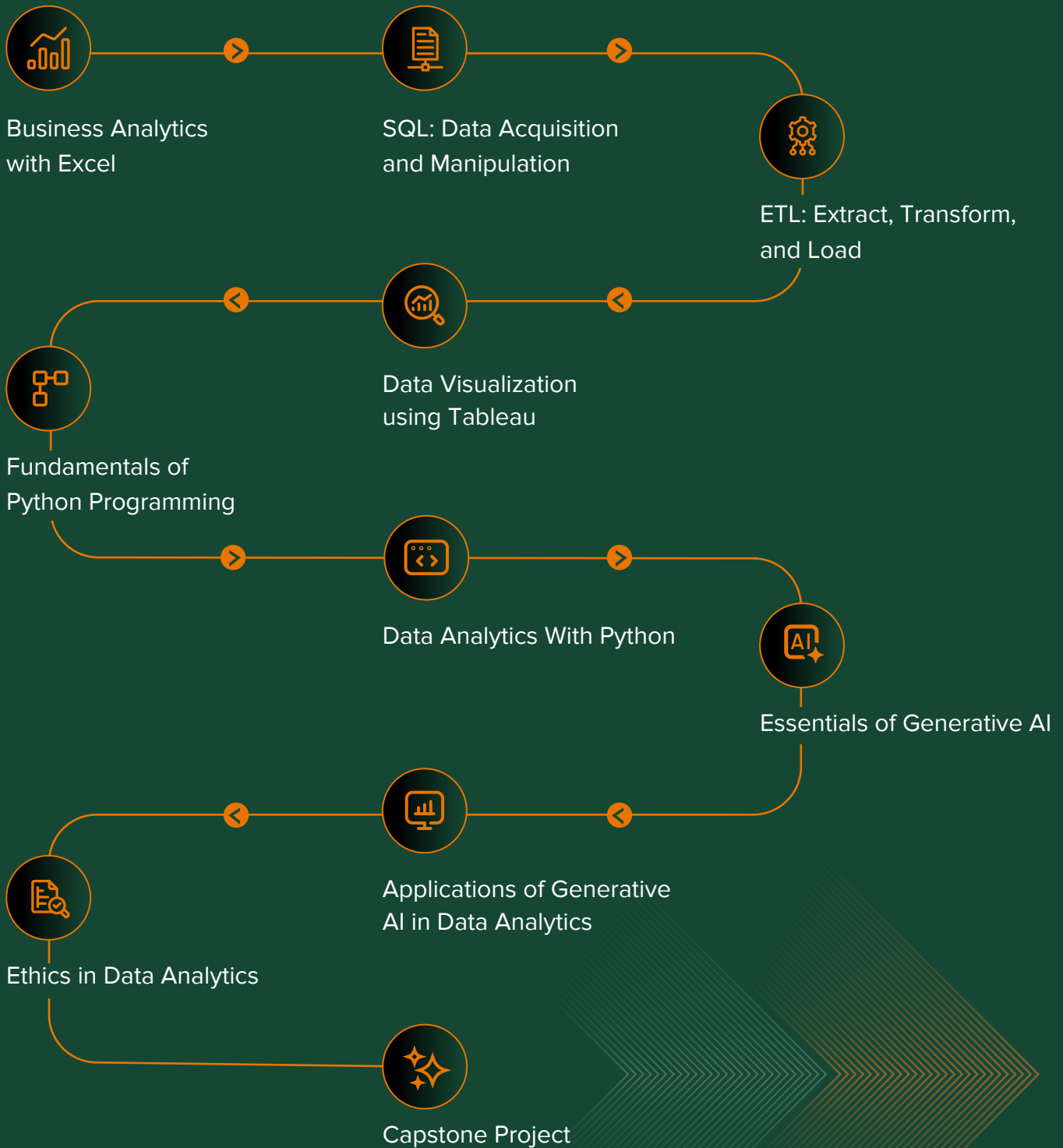
Data Associate, CFA Society Chicago

Certificate of Completion

Upon completing the Data Analytics Bootcamp, you'll receive a **Certificate of Completion** jointly issued by UT Dallas and Fullstack Academy. These credentials will validate your skills as an industry-ready data analytics professional.



Curriculum Unit Overview



Tools & Technologies Covered



 jupyter



 + a b l e a u
from  Salesforce



ChatGPT



AWS Glue



python™



NumPy



pandas

 matplotlib



seaborn



zapier



uizard



invideo



Otter.ai

Julius



miro

Gemini



descript



Claude



DataSquirrel

...and many more

Sample Projects



E-Commerce Dashboard

Develop an interactive dashboard to analyze sales performance across regions and categories, offering AI-driven insights into sales patterns.



Employee Performance Mapping

Build an Excel dashboard to assess employee performance with productivity metrics and predictive trend analysis.



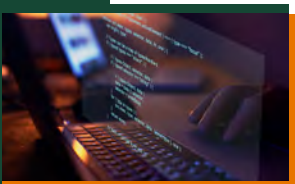
Retail Data Management

Integrate Excel and SQL to manage retail operations and prepare data for AI-based forecasting or recommendation systems.



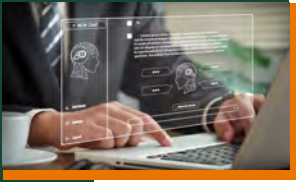
Crime Analysis

Analyze crime data to uncover spatial and temporal patterns and identify emerging crime hotspots using visualization and statistical insights.



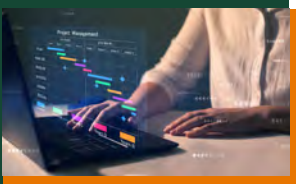
Creating a Shopping App Using Python

Build the backend for a shopping app, incorporating logic for recommendation systems or chatbot integration.



ChatGPT-Based Storytelling

Design an interactive storytelling experience using ChatGPT with dynamic narratives and creative branching paths.



Virtual Project Management Consultant

Create prompt frameworks for ChatGPT to function as a virtual PM consultant, providing insights and recommendations.



Financial Fraud Detection: Anomaly Detection in Credit Card Transactions

Build a fraud detection model leveraging Exploratory Data Analysis (EDA), SQL, and visual analytics to detect anomalies and patterns in transactions.



Healthcare Management: Patient Readmission Prediction

Analyze patient data and apply machine learning to predict hospital readmissions and identify risk factors.



Retail Analytics: Predicting Customer Purchase Behavior

Build the backend for a shopping app, incorporating logic for recommendation systems or chatbot integration.

*The projects listed above are for illustrative purposes only and may be subject to change based on curriculum updates and industry relevance.

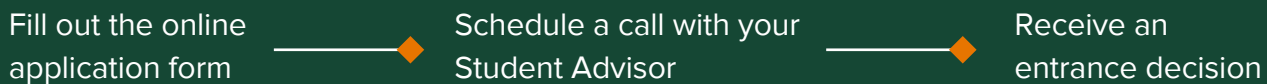
Eligibility Criteria

For admission into the UT Dallas Data Analytics Bootcamp, candidates must meet the following qualifications:

- ◆ Be at least 18 years old
- ◆ Have earned a high school diploma or GED equivalent

Application Process

The application process consists of three simple steps:



Talk to a Student Advisor

Our team of dedicated student advisors will guide you through your bootcamp journey. They are available to:

- ◆ Address your questions about the application process
- ◆ Discuss available payment options, discounts, and scholarships
- ◆ Provide insight into the curriculum, program outcomes, and more

Curriculum

Unit 1

Business Analytics With Excel

Start your analytics journey by mastering Excel—the foundation of data analysis in every industry. In this unit, you'll learn to clean, transform, and analyze data using advanced formulas, pivot tables, and automation features. You will build confidence in exploring datasets and presenting insights for business decision-making.

Key Learning Objectives

- ◆ Apply advanced formulas and conditional logic
- ◆ Build pivot tables and summary reports
- ◆ Perform basic statistical analysis
- ◆ Clean, structure, and transform data
- ◆ Automate workflows with Power Query
- ◆ Create business-ready insights

Key Skills

- ◆ Advanced Excel Functions
- ◆ Data Cleaning
- ◆ Pivot Tables & Charts

Tools & Technologies



*Curriculum is subject to change.

Unit 2

SQL—Data Acquisition & Manipulation

Learn how to work with relational databases—one of the most important skills for any analyst. This unit covers writing SQL queries, joining datasets, handling aggregations, and preparing data for reporting and analysis.

Key Learning Objectives

- ◆ Understand relational database concepts
- ◆ Query datasets using SQL
- ◆ Combine data using JOINS
- ◆ Use subqueries and set operators
- ◆ Perform grouping, filtering, and aggregations
- ◆ Apply window functions and views

Key Skills

- ◆ SQL Querying
- ◆ JOIN Operations
- ◆ Window Functions
- ◆ Database Structures
- ◆ Data Filtering & Aggregation

Tools & Technologies



*Curriculum is subject to change.

Unit 3

Extract, Transform, Load (ETL)

Discover how raw data becomes analysis-ready through ETL workflows. Learn extraction, transformation, and loading techniques while working with enterprise tools like AWS Glue.

Key Learning Objectives

- ◆ Understand ETL architecture
- ◆ Identify and extract data sources
- ◆ Clean and transform raw datasets
- ◆ Build and run ETL workflows
- ◆ Load data into analytics environments
- ◆ Automate processes using cloud tools

Key Skills

- ◆ ETL Development
- ◆ Data Pipeline Concepts
- ◆ Data Transformation
- ◆ Cloud-Based ETL
- ◆ Workflow Automation

Tools & Technologies



*Curriculum is subject to change.

Unit 4

Data Visualization Using Tableau

Turn data into clear, compelling visuals with Tableau. Learn to design dashboards, apply analytics features, and tell powerful stories that support business decisions.

Key Learning Objectives

- ◆ Prepare and model data in Tableau
- ◆ Build dashboards and visual stories
- ◆ Apply filters, calculations, and LOD expressions
- ◆ Use charts effectively for communication
- ◆ Follow visualization best practices

Key Skills

- ◆ Dashboarding
- ◆ Data Modeling
- ◆ Interactive Visualizations
- ◆ KPI Tracking
- ◆ Data Storytelling

Tools & Technologies



*Curriculum is subject to change.

Unit 5

Fundamentals of Python Programming

Learn Python from scratch with a focus on its role in analytics. Build your programming foundation through data structures, loops, functions, and scripting practices.

Key Learning Objectives

- ◆ Understand Python syntax and operations
- ◆ Work with data types, lists, and dictionaries
- ◆ Write functions and reusable scripts
- ◆ Implement control flow
- ◆ Use Python for automation

Key Skills

- ◆ Python Fundamentals
- ◆ Data Structures

Tools & Technologies



*Curriculum is subject to change.

Unit 6

Data Analytics With Python

Take your Python skills further by performing real-world analytics. Learn Exploratory Data Analysis (EDA), statistics, predictive modeling, time series, and basic machine learning techniques.

Key Learning Objectives

- ◆ Perform exploratory data analysis
- ◆ Manipulate data with Pandas and NumPy
- ◆ Build regression models
- ◆ Apply time series techniques
- ◆ Visualize results with Matplotlib

Key Skills

- ◆ Pandas & NumPy
- ◆ Data Wrangling
- ◆ Regression Modeling

Tools & Technologies



*Curriculum is subject to change.

Unit 7

Essentials of Generative AI

Learn how Generative AI and Large Language Models (LLMs) enhance modern analytics workflows. Master prompt engineering and AI-assisted analysis.

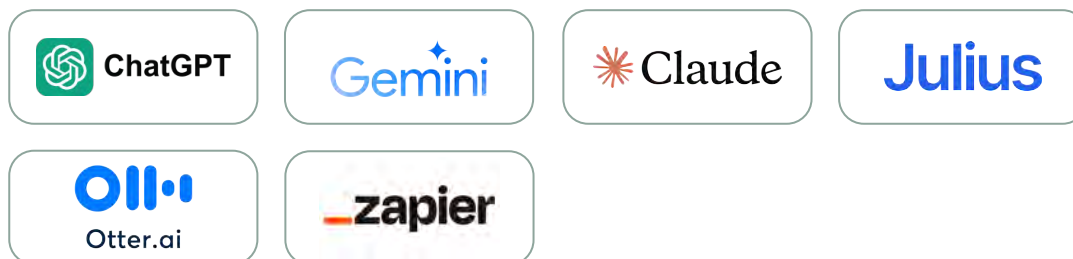
Key Learning Objectives

- ◆ Understand LLMs and generative AI concepts
- ◆ Apply prompt engineering strategies
- ◆ Use AI to summarize data and generate insights
- ◆ Create documentation and analysis plans with AI
- ◆ Identify ethical risks and biases

Key Skills

- ◆ GenAI Foundations
- ◆ Prompt Engineering
- ◆ AI-Assisted Insights
- ◆ Documentation Automation
- ◆ Ethical AI Awareness

Tools & Technologies



*Curriculum is subject to change.

Unit 8

Applications of Generative AI in Data Analytics

In this unit, learn how Generative AI tools can dramatically accelerate every stage of the analytics lifecycle. Use AI assistants to clean and transform raw data, generate SQL and Python scripts for ETL tasks, and automate exploratory analysis.

Key Learning Objectives

- ◆ Automate ETL steps using GenAI
- ◆ Generate dashboard drafts using AI

Key Skills

- ◆ AI-Powered Visualization
- ◆ AI-Generated Reports
- ◆ Workflow Optimization

Tools & Technologies



*Curriculum is subject to change.

Unit 9

Ethics in Data Analytics

Learn how to work with data responsibly, following industry best practices for privacy, consent, and fairness.

Key Learning Objectives

- ◆ Understand data privacy laws
- ◆ Apply ethical data handling principles
- ◆ Identify bias in datasets and AI models
- ◆ Ensure transparency in reporting
- ◆ Follow responsible AI frameworks

Key Skills

- ◆ Legal Frameworks and Data Privacy
- ◆ Informed Consent Principles
- ◆ Ethical Obligations of Data Professionals

*Curriculum is subject to change.

Unit 10

Capstone Project

- ◆ Prepare to thrive in the field by completing a Capstone Project to show employers
- ◆ Use the data tools taught in the program to demonstrate your skills

Tableau Desktop Specialist Certification Preparation With the UT Dallas Data Analytics Bootcamp

In addition to working with leading data tools and technologies throughout the program, the bootcamp includes integrated coursework to help you prepare for the Tableau Desktop Specialist Certification and demonstrate your proficiency. Tableau is a widely used platform for data visualization and business intelligence, making it an essential skill for aspiring data analysts.

(Certification exam not included.)





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bootcamp.utdallas.edu/programs/data-analytics

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