Data Analytics & Visualization
Part-Time Online
16-weeks, 30 hours/week

Part-Time class commitment
Career Path Focus built into curriculum
Learn by Doing real projects, real datasets

Join our 13,000+ global alumni and kickstart your career path in tech.
Program Overview 16 Weeks

The Data Analytics and Visualization program combines data science fundamentals with practical skills to delve into popular technologies, Python, SQL, and Tableau along with specialized toolkits to manipulate, process, and visualize data into powerful insights.

Students will study data manipulation using Pandas, apply Machine Learning concepts, explore hypothesis testing, ETL processes, time series analysis, and create reporting-quality visuals in Tableau. Throughout the program, students will work across a range of technologies, languages, frameworks, and libraries. Upon completion of the program, students will have tackled real-world data challenges and have made informed decisions using data-driven insights.

**Hands-On Experience.** Explore with a hands-on approach. Our bootcamp offers extensive hands-on experience with industry-relevant data science technologies and methodologies. Apply your skills to real-world projects and develop practical problem-solving abilities. Students who successfully complete the program will exit with three portfolio projects all based on real-data sets and authentic stakeholder questions featuring the CRISP-DM workflow, the Extract, Transform, Load process, and time-series analysis in Tableau to showcase their studies.

**Real Data Sets.** Develop job-ready skills in data analytics and visualization by working with real-data sets. Explore Python coding, data cleaning with Pandas, exploratory data analysis, predictive modeling, SQL, and Tableau. Build your portfolio utilizing real datasets answering key stakeholder questions with tools utilized in the industry today.

**Learn By Doing.** Designed in a practical format for you to problem-solve real-world problems by building real projects with actual solutions.

**Industry-Relevant, Comprehensive Curriculum.** Delve into popular technologies, Python, SQL, and Tableau, including regression and classification algorithms, model evaluation and optimization, relational databases, ETL processes, hypothesis testing, time series analysis, time series forecasting, and Tableau visualizations and dashboards.
# Technologies Covered

We’ll cover a wide range of industry-relevant technologies throughout the 16-week program.

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The Curriculum
Data Analytics and Visualization

1 | Weeks One to Four
Data Science Fundamentals
Kicking off the program with Data Science fundamentals, explore introductory coding within Python and its libraries.

2 | Weeks Five to Eight
Intro to Machine Learning
Familiarize yourself with Machine Learning by pre-processing raw data sets, writing code for, optimizing, and explaining supervised statistical models in Scikit-Learn and SHAP.

3 | Weeks Nine to Twelve
Data Enrichment
Dive into database architecture exploring data normalization, ETL processes, and hypothesis testing. Write and interpret queries within MySQL.

4 | Weeks Thirteen to Sixteen
Data Visualization
Explore visualization’s end-to-end process through writing code, identifying, pre-processing and resampling time series datasets. Then, explore analysis and visualization techniques through powerful visualization tool, Tableau to create and optimize an interactive dashboard.

What You’ll Focus On:
- Python Fundamentals
- Load, explore, and understand data in Pandas
- Exploratory Data Analysis (EDA) using Seaborn & matplotlib
- Create and customize plots for explanatory visualizations

How It’s Used:
- Interpret data and historical trends for stakeholders
- Create high quality visuals for reporting

What You’ll Focus On:
- Formatting and preprocessing for supervised Machine Learning
- Train models in regression, classification, and supervised learning
- Model Optimization
- Extract, visualize, and interpret model insights

How It’s Used:
- Use machine learning models to make predictions
- Use Insights from models for data-driven business decisions

What You’ll Focus On:
- Database architecture in SQL
- Intro to ETL: navigate JSON files, extract from APIs, and convert Panda dataframes
- Hypothesis testing, interpretation of results, and communicating results to stakeholders in non-technical terms
- Advance SQL

How It’s Used:
- Design and maintain a SQL database
- Provide statistical support for business decisions (A/B testing)
- Extract information from APIs

What You’ll Focus On:
- Time Series Analysis in Python
- Applying Machine Learning to forecast Time Series data for both short and long term
- Perform analysis and quality visualizations in Tableau
- Create interactive, responsive dashboards within Tableau

How It’s Used:
- Make dynamic forecasts to develop long-term business strategies and contingencies
- Use historical trends and analysis to inform reports for stakeholders
- Provide stakeholders with data insights via an interactive Tableau dashboard

16 WEEK COURSE
Industry Trends

Projected Employment Growth for Data Scientists*
Between 2021-31

36%

$100,910
Median Annual Wage for Data Scientists*

An Example Day’s Schedule in a Data Science Program

24/7 Cohort Access
Your access to our LEARN Platform and Discord is available 24/7. Access your materials at whatever time you need them.

Self Study
Most students dedicate 30 hours a week to self-study, though you may need more or less depending on your learning style and experience.

Lectures
Live lectures are held twice per week for an hour and a half from 6pm-7:30pm MST. Lecture days are Monday/Wednesday or Tuesday/Thursday depending on your cohort’s start date.

Optional Office Hours
Need more assistance understanding a concept? Optional office hours are held thirty minutes before and after lecture times between 5:30pm-6pm & 7:30pm-8pm MST.
Career Services

Lifetime career services support. Our experienced Career Services team provides guidance, strategy, and prep to help you in your job search whether it’s post-graduation or later down the road.

1. Professional Profile & Portfolio Building
   From day one, gain access to your Career Services Manager who will begin to guide you into creating your digital footprint, learning skills companies seek, and building a profile that communicates those points to recruiters.
   Milestones:
   - LinkedIn profile creation and optimization
   - Github Portfolio Production
   - Resume Development & Curation

2. Job Prospecting & Application Guidance
   All while learning the most popular programs in tech, you’ll be working on your job search for when graduation approaches. Your Career Service Manager will work with you on potential job titles to seek, explain different role descriptions, and guide you on what this first job post-bootcamp can help you work toward your long-term career goals.
   Milestones:
   - Real Job Search
   - Sample Applications
   - Hiring Manager Communication
   - Job Title Refinement

3. Interview Prep & Negotiation
   One of the largest complaints by tech recruiters is it’s easy to find people who can code and perform data analysis, but most of these people can’t communicate or work in teams. Whether you’re an introvert or a natural leader, our Career Services team will help you to show up as your best self in interviews and your day-to-day work.
   Milestones:
   - Mock Job Interviews
   - Technical Job Skills Tests
   - Target Compensation Management
   - Contract Negotiation

Coding Dojo cannot guarantee employment, salary or career advancement.
How to Enroll

Do Your Research
- Explore our programs on our website and view other program overviews.
- Schedule a call with one of our Admissions Advisors who will talk through your future career goals and what program may best suit you.
- Attend an Open House to meet directly with our Instruction and Career Service Managers.

Submit Application
- Submit your application! The application process takes less than 5 minutes and does not include a technical assessment.
- Complete a quick 30-minute interview with our Admissions team.
- Receive your decision within 2-3 business days.

Explore Financing Options
- Our Admissions Advisors will help you explore our financing options.
- Coding Dojo offers a variety of payment options, financing partners, and partial-scholarships for those who qualify.

Finalize Your Enrollment
- Submit your deposit, confirm your financing, and sign your Enrollment Agreement to reserve your seat in class!
- Your Admissions Advisor will introduce you to your Student Experience Manager who will help you get ready to start bootcamp.

Up Next: Financing Options
Financing Options

**Installment Plans**
Spread tuition payments out over your course with customizable installment plans.

**Third-Party Financing**
Finance your bootcamp with a third-party loan from a variety of vendors or source your own.

**Pay in Full**
Pay your tuition in full and get started.

Schedule a call with an Admissions Advisor to discuss which payment or financing option is right for you.

Chat with Admissions