# Data Science at Truman

## DISTINCT BY DESIGN

#### **Degree offered**

MS

Master of Science in Data Science and Analytic Storytelling

Graduate Certificate in Data Science

Program **starts in Fall and Spring** each year.

Assignments are flexible and designed to be relevant to your current or future occupation.

## What is Data Science?

An online, interdisciplinary degree, integrating methods and techniques from Statistics and Computer Science, while integrating ideas from Design, Communication, Marketing, Business, and more.



## 100% online with:

asynchronous courses

- weekly meeting with professor
- online office hours
- specialized academic advising
- career coaching services for students

Learn concepts using the R Statistical software language with connections to Python, Spark, and more.

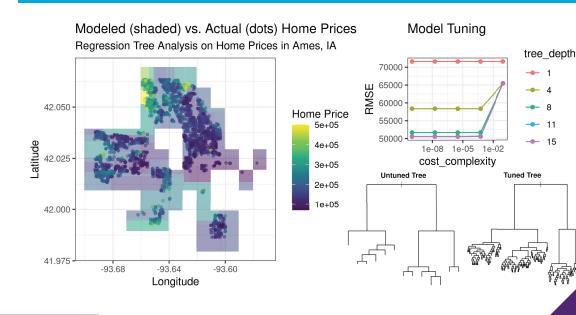


#### Eight-week courses offered year round, a part-time student can finish in as little as two years.

Offers a blend of **vocational and technical skills** with **deeper liberal arts and sciences knowledge**.

Gain the skills to **gather**, interpret and communicate data effectively and efficiently.

Machine learning offers powerful tools to make data-driven predictions. Students in the program learn how to create, tune and visualize these model results. Here, decision tree complexity is tuned to make optimal predictions of home prices in Ames, Iowa.



For more information

Visit truman.edu/majors-programs/graduate-studies/ master-of-science-data-science

# **DATA SCIENCE**

MASTER'S OR CERTIFICATE
(online)

### MASTER'S

## **DEGREE REQUIREMENTS:**

#### **Required Courses: 24 Credits**

- PDAT 610G Introduction to Data Science Credits: 3
- PDAT 611G Big Data Management Credits: 3
- PDAT 613G Data Mining Credits: 3
- PDAT 615G Machine Learning Credits: 3
- PDAT 622G Narrative, Argument, and Persuasion with Data Credits: 3
- PDAT 624G Principles of Design in Data Visualization Credits: 3
- PDAT 625G Ethics and Data Security Credits: 3
- PDAT 630G Thesis Credit Credits: 3-6

### Elective Courses: To 30 credits total

- PDAT 617G Python for Data Science Credits: 3
- PDAT 620G Data Science Capstone Credits: 3
- PDAT 626G Practicum in Data Storytelling Credits: 3

Total Hours: 30

Students completing the certificate are eligible for an application fee waiver for the master's degree.

## CERTIFICATE

## **DEGREE REQUIREMENTS:**

#### **Required Courses: 15 Credits**

- PDAT 610G Introduction to Data Science Credits: 3
- PDAT 611G Big Data Management Credits: 3
- PDAT 613G Data Mining Credits: 3
- PDAT 615G Machine Learning Credits: 3
- PDAT 620G Data Science Capstone Credits: 3

Total Hours: 15

## **ADMISSION REQUIREMENTS:**

To be considered for admission to Truman's Data Science Programs (Master's and Certificate), students must meet the following requirements:

- Baccalaureate degree from an accredited postsecondary institution (or its international equivalent).
- Students must complete the equivalent of STAT 190-Basic Statistics and CS 170-Introduction to Computer Science I before enrolling in any courses in the program.

