

## Overview

Build effective machine learning models, run data pipelines, build recommendation systems, and deploy solutions to the cloud with industry-aligned projects.

### Learning Objectives

**A graduate of this program will be able to:**

- Use Python and SQL to access and analyze data from several different data sources.
- Use principles of statistics and probability to design and execute A/B tests and recommendation engines to assist businesses in making data-automated decisions.
- Deploy a data science solution to a basic flask app.
- Manipulate and analyze distributed datasets using Apache Spark.
- Communicate results effectively to stakeholders.



The Data Science Program Topics include:

- Introduction to Data Science
- Mathematical and Statistical Skills
- Machine Learning
- [Artificial Intelligence](#)
- [Coding](#)
- Applied Mathematics and Informatics
- [Machine Learning Algorithms](#)
- [Data Warehousing](#)
- [Data Mining](#)
- Data Visualization
- Cloud Computing
- [Data Structures](#)
- Scientific Computing
- Scholastic Models
- Project Deployment Tools
- [Predictive Analytics and Segmentation](#)
- [Exploratory Data Analysis](#)