CU Data Science
UNIVERSITY OF COLORADO **BOULDER**

MS-DS + AI Certificate (30 credits)

Specializations applying to MS-DS Only:

- **Data Science Foundations: Statistical Inference**
  (3 credits)

- **Data Science Foundations: Data Structures & Algorithms**
  (3 credits)

- **Vital Skills for Data Scientists**
  (4 credits)

- **Data Mining Foundations & Practice**
  (3 credits)

- **Statistical Modeling for Data Science**
  (3 credits)

- **Databases**
  (2 credits)

Specializations applying to MS-DS + AI Certificate:

- **Machine Learning (3 credits)**
  (crosslisted - take DTSA versions)

Electives (9 credits):

Natural Language Processing (3 credits)
(under development)
(Take DTSA versions)
+
6 Outside CSCA Elective Courses
(PICK TWO SPECIALIZATIONS IN BLUE BELOW)

- **Foundations of Autonomous Systems (3 credits)**
- **Introduction to Robotics with Webots (3 credits)**
- **Generative AI (3 credits) (under development)**
- **Reinforcement Learning (3 credits) (under development)**
- **Artificial Intelligence (3 credits) (under development)**

Notes:

- In order to earn the MS-DS degree, the DS Certificate, and the AI Certificate, you will need to declare each program using Program Action Form in Buff Portal.
- In order to apply outside electives (CSCA courses - up to 6 outside electives allowed), you will need to complete the 'outside electives' survey that you will receive in your email near the end of each session.
- Not all AI certificate courses are fully developed, and we do not have estimates on when they will be available.
- Electives cannot be mixed and matched and in order to earn the credentials as listed, you will need to complete each specialization in full.

Questions? msds-support@colorado.edu