



# DS Cert + MS-DS + AI Cert (33 cr.)

## DS Certificate (ALL REQUIRED)

## MS-DS Degree (ALL REQUIRED)

## AI Certificate (Choose ML + 3)

**MSDS PATHWAY:  
Data Science Foundations:  
Statistical Inference**

**Computing, Ethics,  
and Society**  
(Cannot be applied to DS electives)

**MSDS PATHWAY:  
Data Science Foundations:  
Data Structures &  
Algorithms**

**Foundations of  
Autonomous Systems**

**Vital Skills for  
Data Scientists**

**Introduction to Robotics  
with Webots**

**Data Mining Foundations  
& Practice**

**Generative AI  
(under development)**

**Statistical Modeling for  
Data Science**

**Natural Language  
Processing  
(under development)**

**Databases**

**Artificial Intelligence  
(under development)**

**Statistical Learning for  
Data Science**



**6 Outside CSCA  
Elective Courses that overlap  
with AI Cert except Computing,  
Ethics, and Society**

**Reinforcement Learning  
(under development)**

### NOTES:

- Up to 6 CSCA elective courses can apply to your DS electives except Computing, Ethics, and Society.
- In order to earn the AI Certificate, you will need to use the Computer Science enrollment form in order to enroll in courses required to meet the AI Certificate requirements. Be sure to indicate interest in the graduate certificate.

### Machine Learning (Crosslisted)

- ML taken for DS Certificate will NOT count for credit toward both Certs. DO NOT select ML in your DS certificate electives if you are planning on using it for your AI Certificate.
- If you have not yet taken the Machine Learning specialization and want to apply that specialization to both the MS-DS degree and the AI certificate, please enroll in these courses under the CSCA prefix using the Computer Science enrollment form.
- If you have already taken DTSA Machine Learning courses and have **not** already earned the DS Certificate and would like apply these courses to the AI Certificate, please email [msds-support@colorado.edu](mailto:msds-support@colorado.edu). We will manually apply these courses to your AI Certificate once you are enrolled in AI Certificate courses. Do not enroll in courses that will fulfill the remaining DS Certificate requirements until your DTSA ML courses have been applied to your AI Certificate.