MACHINE LEARNING CERTIFICATE

Department of Computer Science, College of Information Science & Technology

Vision Statement
The recent advances in machine learning (ML) have made significant impacts in diverse fields such as health care, agriculture, transportation, education, global security, etc. Machine learning experts are in very high demand for right now and the foreseeable future. The ML graduate certificate will prepare students to become data scientists, machine learning algorithm designers, deep learning systems engineers, computer vision experts, software and application developers, and other machine learning related professionals.

Program Contact Information
Jon Youn, PhD, Graduate Program Chair (GPC)
282E Peter Kiewit Institute (PKI)
402.554.4911
jyoun@unomaha.edu

Emily Wiemers, Graduate Advisor
170 Peter Kiewit Institute (PKI)
402.554.3819
ewiemers@unomaha.edu

Program Website (https://www.unomaha.edu/college-of-information-science-and-technology/computer-science/prospective-students/graduate-programs.php)

Admissions
General Application Requirements and Admission Criteria (https://catalog.unomaha.edu/graduate/admission/)

Program-Specific Requirements
Application Deadlines (Spring 2023, Summer 2023, and Fall 2023)
- Fall: July 1
- Spring: November 1
- Summer: March 1

Other Requirements
- Individuals with an undergraduate degree and one to two years of work experience in information systems (IS) related roles are eligible to apply for this certificate programs.
- The minimum undergraduate grade point average requirement for the data management certificate is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a 4-year undergraduate degree.
- English Language Proficiency: Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, OR a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum scores required for this program are:

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 2410</td>
<td>INTRODUCTION TO DATA ANALYTICS USING PYTHON</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Prerequisite Course

Required Courses
- CSCI 8590  FUNDAMENTALS OF DEEP LEARNING  3
- CSCI 8360  MACHINE LEARNING FOR TEXT  3

If a required course is waived, it must be replaced with another course from the electives list below.

Electives  6
- CSCI 8300  IMAGE PROCESSING AND COMPUTER VISION
- CSCI 8110  ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE
- BMI 8400  LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI

Total Credits  12

- Resume: Submit a detailed resume indicating your work experience and background