M.S. in Artificial Intelligence

The mission of the MS in Artificial Intelligence program is to prepare our graduates for data science and artificial intelligence research jobs through a curriculum that bridges AI and machine-learning models, such as supervised and unsupervised learning, deep learning and neural networks and reinforcement learning, with engineering best practices including problem framing, requirements gathering, UI/UX and software development.

|  |  |
| --- | --- |
| **Department/Program Goal** | **Objectives** |
| 1. Develop functional knowledge of Artificial Narrow Intelligence principles, practices, work flows, technology and tools, including supervised learning, unsupervised learning, and transfer learning | Combine mathematical, statistical, and computational methods to produce machine learning applications from data. |
| Make appropriate decisions around platforms, frameworks, algorithms, and hyperparameters based on business and data constraints. |
| 2. Design and build AI applications using current patterns, practices, technologies, and tools. | Identify, acquire, prepare, model, evaluate, deploy, and monitor structured and unstructured data using industry standard tools. |
| Create reproducible processes, workflows, and pipelines using notebooks and cloud-based web services. |
| 3. Translate AI research into products and services that can be delivered to the market to create organizational or societal value. | Identify, read, reproduce, and extend existing research. |
| Effectively present findings to technical and business-level audiences. |

****