# Artificial Intelligence

ICTC’s WIL Digital Artificial Intelligence e-Learning course introduces students to the field of AI. Students will learn the main concepts of AI and its applications in various industries. This course will enhance on-the-job learning. Students will explore career opportunities and the skills required to secure their next job.

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<th>Modules</th>
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| **Module 1**               | **Introduction to AI**                                                  | • Understand foundational AI  
• Critically assess the ethical implications of AI  
• Gain basic understanding of how AI is applied, specifically in predictive analytics or autonomous systems |
| **Module 2**               | **Data and Responsible Use of AI**                                      | • Gain a basic understanding of how data bias can impact AI systems  
• Critically assess the ethical implications of AI  
• Describe explainability with respect to algorithms |
| **Module 3**               | **Machine Learning Fundamentals**                                       | • Identify difference between structured and unstructured data sets  
• Describe relationship between data and results of predictive algorithm  
• Basic understanding of the types of problems supervised machine learning can solve |
| **Module 4**               | **Deep Learning and Advanced Topics**                                   | • Understand at a basic level how humans learn and process information as it relates to deep learning  
• Describe how deep learning is applied  
• Understand the terms computer vision and natural language processing |
| **Module 5**               | **Use Cases and Applications**                                          | • Describe how AI implicates credit card fraud detection and/or prediction in the Fintech industry  
• Explore how AI is applied in Intelligent retail by means of product recommendation engines  
• Explore the application of autonomous robotics |
| **Module 6**               | **Careers in AI**                                                       | • Identify the difference between augmentation and automation in AI  
• Explore the fields that are about to be significantly disrupted by AI  
• Understand how ROI can be measured with respect to AI |

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