AI 360 CERTIFICATE

Program Description

With the rapid expansion of artificial intelligence (AI) and generative AI applications across every aspect of work and life, demand for professionals with the skills to develop AI-based tools and solutions has exploded.

In this certificate program, you will explore the components and technologies on which AI is built. Throughout the courses, you will leverage practical tools and projects to gain technical skills in key areas such as machine learning and natural language processing, as well as establish strategies for the business implications of AI in today's marketplace and the future of work. You'll have the opportunity to gain hands-on experience with prompt engineering using state-of-the-art generative AI models and establish a foundation in the ethical and legal implications of AI for products and work you create. Using real-world datasets, you will apply supervised learning to solve data science questions, improve machine learning models, and create neural networks for specific business cases. Finally, you will choose your own exploration of AI-driven practices with elective courses to take a deep dive into natural language processing or digital transformation. By the end of the program, you will have achieved broad expertise in AI and generative AI application development, giving you the tools needed to lead in today's age of AI.

This program also uses Python and the NumPy library for code exercises and projects. To be successful in this program, students should have a working knowledge of Python programming, and college-level knowledge of calculus, linear algebra, and statistics. If you do not have this experience, start with the Data Science Essentials or Python Programming certificate program.

The courses in this certificate program are required to be completed in the order that they appear.

This program includes a year of free access to Symposium! These events feature several days of live, highly participatory virtual Zoom sessions with Cornell faculty and experts to explore the marketing industry's most pressing topics. Symposium events are held several times throughout the year. Once enrolled in your program, you will receive information about upcoming events.

Throughout the year, you may participate in as many sessions as you wish. Attending Symposium sessions is not required to successfully complete the certificate program.

How To Enroll

For more information on how to enroll, please visit AI 360 Certificate (https://ecornell.cornell.edu/certificates/ai/ai-360/).

Courses

Code	Title	Hours
eCornell JCB701	Creating Business Value With AI	0
eCornell JCB704	Expanding AI Power and Value Through Neural Networks	0
eCornell JCB705	Innovating With Generative AI	0
eCornell CEEM581	Understanding Data Analytics	0
eCornell CEEM582	Finding Patterns in Data Using Association Rules, PCA, and Factor Analysis	0
eCornell CEEM583	Finding Patterns in Data Using Cluster and Hotspot Analysis	0
eCornell CEEM584	Regression Analysis and Discrete Choice Models	0
eCornell CEEM585	Supervised Learning Techniques	0
eCornell CEEM586	Neural Networks and Machine Learning	0
eCornell CIS535	Debugging and Improving Machine Learning Models	0
eCornell CIS536	Learning with Kernel Machines	0
eCornell CIS537	Deep Learning and Neural Networks	0
eCornell CIS571	Natural Language Processing Fundamentals	0
eCornell CIS572	Transforming Text Into Numeric Vectors	0
eCornell CIS573	Classifying Documents With Supervised Machine Learning	0
eCornell CIS574	Topic Modeling With Unsupervised Machine Learning	0
eCornell CIS575	Clustering Documents With Unsupervised Learning	0
eCornell CIS576	Conducting Semantic and Sentiment Analysis	0
eCornell CTECH431	AI and Digital Technology: Opportunities and Pitfalls	0
eCornell CTECH432	Demystifying AI and Digital Technologies	0
eCornell CTECH433	AI and the Future of Work	0
eCornell CTECH434	Identifying New Business Models Enabled by AI	0
eCornell CTECH435	Creating a Digital Builder Culture	0
eCornell CTECH436	Data-Driven Leadership	0
eCornell JCB702	Exploring Good Old-Fashioned AI	0
eCornell JCB703	Leveraging Data for AI Solutions	0
eCornell CIS531	Problem-Solving with Machine Learning	0
eCornell CIS532	Estimating Probability Distributions	0
eCornell CIS533	Learning with Linear Classifiers	0
eCornell CIS534	Decision Trees and Model Selection	0