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Center for Global & Online Education

Course Completed by

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Overview

In this course, learners learn the probabilistic foundations and learning algorithms for deep generative models. It covers topics like variational autoencoders, generative adversarial networks, autoregressive models, normalizing flow models, energy-based models, and score-based models. Learners get hands-on experience with these models through lectures and assignments, letting them explore deep generative models across various AI tasks. By the end of the course, they are able to design and implement a range of generative models, such as autoregressive models, normalizing flow models, and energy-based models, using popular frameworks such as PyTorch.

Competency Areas

Deep Generative Models

Autoregressive Models

Variational Autoencoders

Generative Adversarial Networks (GANs)

Energy Based Models

Score Based Models

Evaluation of Generative Models

Diffusion Models

Credential / Credit Earned

Certificate of Achievement in Deep Generative Models verified by the Stanford Engineering Center for Global & Online Education.