



3 Courses

**Supervised Machine Learning: Regression and Classification**

**Advanced Learning Algorithms**

**Unsupervised Learning, Recommenders, Reinforcement Learning**



Feb 17, 2025

## Zubair Ali Bhutto

has successfully completed the online, non-credit Specialization

# Machine Learning

Congratulations on completing all three courses of the Machine Learning Specialization! You studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection), recommender systems, and reinforcement learning. You learned some of the best practices for building machine learning models. You've also gained practical skills to apply machine learning techniques to challenging real-world problems. Now #BreakIntoAI and start building your career in machine learning!

A handwritten signature of "Andrew Ng" in black ink.

Andrew Ng, Instructor,  
DeepLearning.AI

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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