Machine Learning Engineer Nanodegree

Program Timeline

Your **Nanodegree program** will be an epic adventure! Each week, you'll learn and apply new skills, and share successes and challenges with your learning community. Whatever your pace or daily schedule along the way, use the timeline below as a tool to make sure you stay on track with your cohort and cross the finish line to graduation. We can't wait to see where your adventure takes you!

Tasks listed should be completed by the end of each week except for **project submissions, which are due on the **Monday of the week** that they're listed in.* Links will take you to the Nanodegree program to tackle the tasks!

Click here to download this timeline, and here to see how to mark tasks as completed.

Week	What To Work On
Week 0	**Week enrollment opens* ❑ Enroll and familiarize yourself with the Nanodegree path ❑ Watch the Welcome to the Nanodegree program video
Week 1	❑ Complete the Artificial Intelligence Introduction lesson
Week 2	❑ Complete the Machine Learning Introduction and Data Science Introduction lessons
Model Evaluation and Validation	
Week 3	❑ Watch the Intro to Model Evaluation and Validation video and check out the Project 1: Predicting Boston Housing Prices description ❑ Begin Lesson 1: Introduction and Statistics
Week 4	❑ Complete Lesson 1: Introduction and Statistics
Week 5	❑ Complete Lesson 2: Evaluating Model Performance
Week 6	❑ Complete Lesson 3: Data Modeling and Validation
Week 7	❑ Complete Lesson 4: Model Optimization
Week 8	❑ Begin working on Project 1: Predicting Boston Housing Prices
Week 9	❑ Work on Project 1: Predicting Boston Housing Prices
Week 10	❑ Complete and submit Project 1: Predicting Boston Housing Prices, begin Supervised Learning, Lesson 1: Supervised Learning Intro

Supervised Learning	
Week 11	❑ Complete Lesson 1: Supervised Learning Intro and Lesson 2: Decision Trees ❑ Check out the Project 2: Building a Student Intervention System description and familiarize yourself with the rubric and requirements
Week 12	❑ Complete Lesson 3: Regression
Week 13	❑ Complete Lesson 4: Neural Networks
Week 14	❑ Complete Lesson 5: Kernel Methods
Week 15	❑ Complete Lesson 6: Instance Based Learning
Week 16	❑ Begin Lesson 7: Bayesian Learning
Week 17	❑ Complete Lesson 7: Bayesian Learning
Week 18	❑ Complete Lesson 8: Ensemble Learning
Week 19	❑ Begin Project 2: Building a Student Intervention System
Week 20	❑ Complete and submit Project 2: Building a Student Intervention System, begin Unsupervised Learning, Lesson 1: Clustering
Unsupervised Learning	
Week 21	❑ Work on Lesson 1: Clustering ❑ Check out the Project 3: Creating Customer Segments description and familiarize yourself with the rubric and requirements
Week 22	❑ Complete Lesson 1: Clustering
Week 23	❑ Complete Lesson 2: Feature Scaling
Week 24	❑ Complete Lesson 3: Feature Selection
Week 25	❑ Begin Lesson 4: Feature Transformation
Week 26	❑ Work on Lesson 4: Feature Transformation
Week 27	❑ Complete Lesson 4: Feature Transformation
Week 28	❑ Complete Lesson 5: Semisupervised Learning
Week 29	❑ Begin working on Project 3: Creating Customer Segments
Week 30	❑ Complete and submit Project 3: Creating Customer Segments
Reinforcement Learning	
Week 31	❑ Begin Reinforcement Learning, Complete Lesson 1: Markov Decision Processes ❑ Check out the Project 4: Train a Smartcab to Drive description and familiarize yourself with the rubric and requirements
Week 32	❑ Complete Lesson 2: Reinforcement Learning and Lesson 3: Game Theory
Week 33	❑ Begin and complete Project 4: Train a Smartcab to Drive

Specialization	
NOTE	With your remaining time, you will choose your own path by selecting a specialization. We encourage you to download and fill in the below dates with the lessons and activities that correspond with your choice. For reference, the pacing to this point has been approx. 1 lesson per week. We have provided general steps to help you define and complete your project, however, you will need to consider your unique goals to submit your Project 5: Capstone Project.
Week 34	❑ Define your problem
Week 35	❑ Describe a solution
Week 36	❑ Analyze the problem
Week 37	❑ Implement a solution
Week 38	❑ Refine your solution
Week 39	❑ Complete and submit Project 5: Capstone Project