

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	Program Goals
Week 1	<ul style="list-style-type: none"> ❑ Enroll and familiarize yourself with the Nanodegree syllabus ❑ Complete the Welcome to the Nanodegree lessons: <ul style="list-style-type: none"> ❑ Welcome to the MLND Program ❑ MLND Program Orientation ❑ Getting Started: From Artificial Intelligence to Machine Learning ❑ Review the Project Prep lesson to familiarize yourself with the <u>optional</u> Project 0: Titanic Survival Exploration project description and project rubric
<i>Model Evaluation and Validation</i>	
Week 2	<ul style="list-style-type: none"> ❑ Complete and submit the <u>optional</u> Project 0: Titanic Survival Exploration ❑ Complete the following lessons: <ul style="list-style-type: none"> ❑ Intro: Model Evaluation and Validation ❑ Prerequisites ❑ Review the Project Prep lesson to familiarize yourself with the Project 1: Predicting Boston Housing Prices project description and project rubric
Week 3	<ul style="list-style-type: none"> ❑ Complete the following lessons: <ul style="list-style-type: none"> ❑ Measures of Central Tendency ❑ Variability of Data ❑ Numpy & Pandas Tutorials ❑ scikit-learn Tutorial
Week 4	<ul style="list-style-type: none"> ❑ Complete the following lessons: <ul style="list-style-type: none"> ❑ Evaluation Metrics ❑ Causes of Error

	<input type="checkbox"/> Nature of Data & Model Building
Week 5	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Training and Testing <input type="checkbox"/> Cross Validation <input type="checkbox"/> Representative Power of a Model <input type="checkbox"/> Learning Curves and Model Complexity
Week 6	<input type="checkbox"/> Begin working on Project 1: Predicting Boston Housing Prices
Week 7	<input type="checkbox"/> Continue working on Project 1: Predicting Boston Housing Prices
Week 8	<input type="checkbox"/> Complete and submit Project 1: Predicting Boston Housing Prices <input type="checkbox"/> Review the <u>optional</u> Kaggle Challenges lesson
<i>Supervised Learning</i>	
Week 9	<input type="checkbox"/> Complete and submit Project 1: Predicting Boston Housing Prices <input type="checkbox"/> Complete the Supervised Learning Intro lesson <input type="checkbox"/> Review the Project Prep lesson to familiarize yourself with the Project 2: Building a Student Intervention System project description and project rubric
Week 10	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Decision Trees <input type="checkbox"/> More Decision Trees
Week 11	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Regression & Classification <input type="checkbox"/> Regressions <input type="checkbox"/> More Regressions
Week 12	<input type="checkbox"/> Complete the Neural Networks lesson
Week 13	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Kernel Methods & SVMs <input type="checkbox"/> SVM
Week 14	<input type="checkbox"/> Complete the Instance Based Learning lesson
Week 15	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Naive Bayes <input type="checkbox"/> Bayesian Learning <input type="checkbox"/> Bayesian Inference
Week 16	<input type="checkbox"/> Complete the Ensemble B&B Lesson
Week 17	<input type="checkbox"/> Begin working on Project 2: Building a Student Intervention System
Week 18	<input type="checkbox"/> Continue working on Project 2: Building a Student Intervention System
Week 19	<input type="checkbox"/> Complete and submit Project 2: Building a Student Intervention System <input type="checkbox"/> Update your resume with the Resume Review project. This is <u>optional</u> for students not enrolled in the <i>Nanodegree Plus Program</i> .
<i>Unsupervised Learning</i>	

Week 20	<input type="checkbox"/> Complete the Introduction to Unsupervised Learning lesson <input type="checkbox"/> Review the Project Prep lesson to familiarize yourself with the Project 3: Creating Customer Segments project description and project rubric
Week 21	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Clustering <input type="checkbox"/> More Clustering
Week 22	<input type="checkbox"/> Complete the Clustering Mini-Project lesson
Week 23	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Feature Scaling <input type="checkbox"/> Feature Selection
Week 24	<input type="checkbox"/> Complete the PCA lesson
Week 25	<input type="checkbox"/> Complete the PCA Mini-Project lesson
Week 26	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Feature Transformations <input type="checkbox"/> Outro
Week 27	<input type="checkbox"/> Begin working on Project 3: Creating Customer Segments
Week 28	<input type="checkbox"/> Continue working on Project 3: Creating Customer Segments
Week 29	<input type="checkbox"/> Complete and submit Project 3: Creating Customer Segments <input type="checkbox"/> Update your GitHub profile with the GitHub Profile Review project. This is <u>optional</u> for students not enrolled in the <i>Nanodegree Plus Program</i> .
<i>Reinforcement Learning</i>	
Week 30	<input type="checkbox"/> Complete the Introduction to Reinforcement Learning lesson <input type="checkbox"/> Review the Project Prep lesson to familiarize yourself with the Project 4: Train a Smartcab to Drive project description and project rubric
Week 31	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Markov Decision Processes <input type="checkbox"/> Reinforcement Learning
Week 32	<input type="checkbox"/> Complete the following lessons: <ul style="list-style-type: none"> <input type="checkbox"/> Game Theory <input type="checkbox"/> More Game Theory
Week 33	<input type="checkbox"/> Begin working on Project 4: Train a Smartcab to Drive
Week 34	<input type="checkbox"/> Continue working on Project 4: Train a Smartcab to Drive
Week 35	<input type="checkbox"/> Complete and submit Project 4: Train a Smartcab to Drive <input type="checkbox"/> Update your LinkedIn profile with the LinkedIn Profile Review project. This is <u>optional</u> for students not enrolled in the <i>Nanodegree Plus Program</i> .
<p style="text-align: center;"><i>Specializations</i></p> <p><i>With your remaining time in the program, you will develop your own unique capstone project by choosing a problem domain of interest and finding a problem which can be solved using machine learning techniques. We encourage you to download this timeline and fill in the goals below with your own activities that correspond to your progress on this project.</i></p>	

Week 36	<input type="checkbox"/> Complete the Introduction to Specializations lesson <input type="checkbox"/> Review the Project Prep lesson to familiarize yourself with the Project 5: Capstone Project project description and project rubric
Week 37	<input type="checkbox"/> <i>Define the problem and investigate potential solutions</i> <input type="checkbox"/> <input type="checkbox"/>
Week 38	<input type="checkbox"/> <i>Analyze the problem through visualizations and data exploration</i> <input type="checkbox"/> <input type="checkbox"/>
Week 39	<input type="checkbox"/> <i>Implement the algorithms and techniques needed to solve the problem</i> <input type="checkbox"/> <input type="checkbox"/>
Week 40	<input type="checkbox"/> <i>Collect results about the performance of your solution</i> <input type="checkbox"/> <input type="checkbox"/>
Week 41	<input type="checkbox"/> <i>Construct conclusions about your problem and solution</i> <input type="checkbox"/> <input type="checkbox"/>
Week 42	<input type="checkbox"/> Complete and submit Project 5: Capstone Project