
Artificial Intelligence

NANODEGREE PROGRAM

Student Handbook

Welcome to the Artificial Intelligence Nanodegree program. As one of the first students in this unique program, you are already ahead of the curve. You are on your path to joining the world's next artificial intelligence engineers, a field growing as fast as the technology itself. To prepare you to succeed in the program, we compiled essential information in this digital handbook. Congratulations on your first big step.

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Meet the Team

Meet the Team

Instructors - Arpan Chakraborty, David Joyner

Services Lead - Mike Salem

Leads - Dhruv Parthasarathy, Oliver Cameron, Jessica Lulovics

Community - Lisbeth Ortega



David Joyner
COURSE DEVELOPER



Arpan Chakraborty
COURSE DEVELOPER

Your Resources

Your Mentor

Each Artificial Intelligence Nanodegree program student gets his or her own personal mentor. This mentor will get to know you, your learning style, and will be able to help you get exactly what you want out of your Nanodegree program.

With Mentorship you'll be able to:

- Get help from your mentor without even leaving the classroom
- Receive 1:1 on-demand support via your personal chat channel
- Stay on track through weekly check-ins

Find Your Mentor in the Classroom

What Projects Will You Build? < > Mentor

Bill Kapsalis

OCTOBER 25, 2016

Welcome to Udacity Self Driving Car Nanodegree! At Udacity we found that when students set weekly goals they get the best results. So, I will be checking in with you weekly to get your goals and discuss any challenges or problems you had the previous week. I will be here to answer questions about the course material or any general Udacity questions. Before you jump in to the material tell me a little about yourself! What is your

Forums

In the Artificial Intelligence Nanodegree program, you'll have access to an exclusive forum. In this forum you'll not only be able to talk to other passionate students, but also receive help from our expert Coaches and dedicated staff.

We monitor and respond to an ongoing stream of detailed feedback from student forum participants, and this has allowed us the opportunity to constantly refine, enhance, and upgrade the model. Thanks to your feedback in the forums, we can ensure the Nanodegree program improves over time.

Find Forums in the Classroom

The screenshot shows a dark-themed user interface for a learning platform. On the left, there's a vertical sidebar with five icons: a blue 'U' (User), a white house (Home), a white compass (Location), a red circle containing two overlapping white document icons (Forums), and a white person (Profile). The 'Forums' icon is circled in red. The main content area displays two course terms:

- Term 1** STARTED NOV 18TH
- Term 2** NOT ENROLLED

A red arrow points from the text "Click here for Forums" to the red-circled 'Forums' icon in the sidebar.

Click here for Forums

Nanodegree Program
Artificial Intelligence

Menu

CONTINUE LESSON

Slack

Udacity students of a single class can interact with each other live via Slack. With a designated private channel for your class, connect directly with students who are online the same time as you: ask questions, exchange ideas, and get to know your fellow classmates.

Join the [Slack Team for Artificial Intelligence Nanodegree students](#). Once you're in, click on Channels, and introduce yourself on the **#introductions** channel!

Support

Reach out anytime. Udacity has dedicated support for the Artificial Intelligence Nanodegree program. Simply reach out on the forums or at **ai-support@udacity.com**.

What to Expect

See our full [Artificial Intelligence Nanodegree FAQ](#) and [general Udacity FAQ](#).

Class Timeline Pacing

This is a unique, two-term program that requires students to keep pace with their peers throughout the duration of the program. Each term is around 3 months. The entire Nanodegree program takes 6 months to complete.

Class Timeline Curriculum

Read all about the [Term 1 curriculum](#) as detailed by team lead Dhruv Parthasarathy.

Class Timeline Missing Deadlines

Our coaches and mentors will work directly with any students who are struggling with the timeline requirements. Our ultimate goal is to ensure that every single student accepted into the program successfully graduates.

If you miss more than three project deadlines, the following happens:

- You are not eligible for career services and events with hiring partners.

Class Timeline Time Dedication



15 HOURS / WEEK

Between instructional content, quizzes, projects, and other course-related activity, we estimate that investing 15 hours/week will enable you to proceed through the program at a successful pace.

Class Timeline Schedule

Find the dates for each of your project deadlines next to the respective lesson [in your classroom.](#)

Jan 23rd First Day of Class

Project 1 Build a Game-Playing Agent

Project 2 Implement a Planning Search

Project 3 Design a Sign Language Recognition System

Term End End of Term

Community

Finding support in fellow students can make all the difference in your educational experience. Every student offers their own unique knowledge and skills, and that's exactly what makes your classmates valuable resource as you move through the program.

Take advantage of the Forums, Slack, or even form a study group. These are all spaces to exchange ideas, questions and progress with your classmates.

Community (cont.)

COMMUNITY EVENTS

Community events will give you the opportunity to meet classmates both on and offline (dependent on location), team-build and take part in extracurricular opportunities.

STUDY GROUPS

Try [Meetup](#) to form a local study group. Share it with other students on Slack and ask Lisbeth for help to get the word out.

What to Expect After Graduation

CAREER SERVICES

With hiring partners like Didi Chuxing & IBM Watson, Artificial Intelligence Nanodegree students have unprecedented opportunities to become a part of this growing field. Begin by keeping your Udacity profile up to date and turning on recruiter access. [Read more about career services here.](#)

STUDENT WORK OPPORTUNITIES

Continue to be a part of the Udacity student community with your skills. Opportunities include paid positions as Mentors, content creators, and more. Keep an eye out for announcements regarding application.

Policy

COST

The Nanodegree program costs \$800 per 3-month term

REFUND

Students have a 7-day window from the day they receive access to the program, the first day of their class, to unenroll and request a refund. To request a refund, email **ai-support@udacity.com**.

Further Reading

Courses on Udacity

[Deep Learning Nanodegree Foundation](#)

[Machine Learning Engineer Nanodegree by Google](#)

[Artificial Intelligence for Robots](#) (Free Course)

[Intro to Statistics](#) (Free Course)

[Programming Foundations with Python](#) (Free Course)

[Introduction to Computer Vision](#)

Reading Resources

[AI Nanodegree Program Syllabus: Term 1, In Depth](#) (Dhruv Parthasarathy)

[6 areas of AI and machine learning to watch closely](#) (Medium)

[Machine Learning is Fun! An introduction to Machine Learning](#) (Medium)

[Are Udacity Nanodegrees worth it for finding a job?](#) (Quora)

[Understanding LSTM Networks](#) (Christopher Ola)

[A Beginner's Guide To Understanding Convolutional Neural Networks](#) (Adit Deshpande)

[Transmission.ai - Self Driving Car & Deep Learning Newsletter](#) (Oliver Cameron)

[Most Cited Deep Learning Papers](#) (Github)

News / Resources

[What a Deep Neural Network thinks about your #selfie](#) (Andrej Karpathy)

[Neuron explained using simple algebra](#) (Medium)

[26-year-old hacker gets \\$3M for self-driving car startup](#) (CNN)

[Identifying rare diseases, lung cancer and more with Deep Learning](#) (Transmission)

[3D Faces Generated From 2D Photos, Machines Learning to Hand-Write & More](#) (Transmission)

[App Helps Fishermen Instantly ID Their Catch](#) (NVIDIA)

[The Unreasonable Effectiveness of Recurrent Neural Networks](#) (Andrej Karpathy)

[Write an AI to win at Pong from scratch with Reinforcement Learning](#) (Medium)

Datasets

[Kaggle](#)

[Reddit](#)

[Aggregate of Datasets](#)

Other Resources

[Stanford Convolutional Neural Networks for Visual Recognition](#)

[Deep Learning Framework written in Swift to use on apple devices \(written by @amund\)](#)

[Image Segmentation From comma.ai](#)