



newus

# Machine learning

@ newus dharamshala

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# About the Program

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The Machine learning Program, covers the crucial skills you need for a successful career in Machine learning. As you undertake this Machine learning program, you'll master the concepts of Machine Learning along with the internationally-acclaimed

programming language Python needed to excel in the field of Machine learning.

You will also learn how to design intelligent models and advanced artificial neural networks, and leverage predictive analytics to solve real-time problems to take your career in Machine learning to the next level.





# About newus Dharamshala

We Are A Leading Education Brand In Himachal  
**newus** earlier named as NIIT Dharamshala Center , a training institute in Skills and Talent Development takes an initiative to encourage aspiring professionals to enhance their knowledge through industry ready programme, together with their update academic curriculum.

We are into the emerging technologies like Artificial Intelligence, Machine Learning, Digital Marketing, Game Design and Game Development.



# Machine Learning

# Program Outcomes

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Learn about the major applications of Machine Learning across various use cases across various fields like customer service, financial services, healthcare, etc.



Master the skills and tools used by the most innovative Machine learning teams across the globe as you delve into specializations, and gain experience solving real-world challenges.



Implement Machine Learning techniques such as search algorithms, Regression, Classification, Decision Trees, neural networks, and clustering



Design and build your own Machine learning agents and apply them to create practical Artificial Intelligence projects including games, Machine Learning models, logic constraint satisfaction problems, knowledge-based systems, probabilistic models and many more



Gain the ability to apply Machine Learning techniques for problem-solving and explain the limitations of current Machine Learning techniques.



## Who Should Enroll in this Program?

With the demand for Artificial Intelligence and Machine Learning in a broad range of industries such as banking and finance, manufacturing, transport and logistics, healthcare, home maintenance, and customer service, the Machine Learning course is well suited for a variety of profiles like:

- ✓ Developers aspiring to be an 'Machine Learning Engineers'
- ✓ Who are looking to build a career in Artificial Intelligence and Machine Learning
- ✓ Who are beginners and want to gain expertise in Machine Learning Algorithms.



# Machine Learning

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newus Dharamshala's Machine Learning course will make you an expert in Machine Learning, a form of Artificial Intelligence that automates data analysis to enable computers to learn and adapt through experience to do specific tasks without explicit programming. You will master Machine Learning concepts and techniques, including supervised and unsupervised learning, mathematical and heuristic aspects, and hands-on modeling to develop algorithms and prepare you for your role with advanced Machine Learning knowledge.

## Key Learning Objectives

- ✓ Master the concepts of supervised and unsupervised learning, a recommendation engine, and time series modeling
- ✓ Gain practical mastery over principles, algorithms, and applications of Machine Learning through a hands-on approach that includes working on four major end-to-end projects
- ✓ Acquire thorough knowledge of the statistical and heuristic aspects of Machine Learning  
Implement models such as support vector machines, kernel SVM,
- ✓ Naive Bayes, decision tree classifier, random forest classifier, logistic regression, K-means clustering, and more in Python
- ✓ Validate Machine Learning models and decode various accuracy metrics. Improve the final models using another set of optimization algorithms, which include Boosting & Bagging techniques
- ✓ Comprehend the theoretical concepts and how they relate to the practical aspects of Machine Learning



# Course Content

- ✓ Data Science Overview
- ✓ Introduction to Artificial Intelligence and Machine Learning
- ✓ Data Analytics Overview
- ✓ Statistical Analysis and Business Applications
- ✓ Python Environment Setup and Essentials
- ✓ Mathematical Computing with Python (NumPy)
- ✓ Scientific computing with Python (Scipy)
- ✓ Data Manipulation with Pandas
- ✓ Machine Learning with Scikit-Learn
- ✓ Natural Language Processing with Scikit Learn
- ✓ Data Visualization in Python using matplotlib
- ✓ Data Preprocessing
- ✓ Supervised Learning
- ✓ Feature Engineering
- ✓ Supervised Learning-Classification
- ✓ Unsupervised learning
- ✓ Time Series Modelling
- ✓ Ensemble Learning
- ✓ Recommender Systems
- ✓ Text Mining

- ✓ Duration: 6month
- ✓ Fee: Rs 48000/-
- ✓ With EMI Plans

# Tools Covered

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## *newus dharamshala*

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