TECHPledge®
Connect Consult Content

Reboot Youur Career with Machine Learning Bootcamp

- PYTHON PROG
- M L TECHNIQUE
- DEEP LEARNING
- AI TECHNIQUE
- CAPSTONE PROJ

NEW 2021
PROJECT BASED TRAINING

MACHINE LEARNING BOOTCAMP

FOR

ADVANCE CAREER

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TechPledge H20 Machine Learning Career Track

3 MONTHS ONLINE BOOTCAMP

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Program Highlight

- 150 + Hours of Training
- 3 Months Duration
- 6 Projects
- 19+ Assignment
- 6 Hours of CIE

Learning Path for Machine Learning

ML engineers must have skills in probability and Forecasting concepts including conditional probability, Markov models, etc. In addition, they should also be aware of univariate as well as multivariate statistical analysis and other machine learning techniques. Knowledge of Excel, Python, and SQL is an added advantage. This Course will prepare you not only get these skills but also give you opportunity to Practice and apply those skills using real-world problems through hands-on projects

Understand Data Science in Business

- Fundamental of Python and Excel
- Importing and exporting data to/from external sources
- Exploring individual elements of customer blend data
- Modifying and extracting the results from the dataset
- User SQL Query to Filter the result.
- Manipulating Data with dplyr

Machine Learning

- Linear Regression and Logistic Regression
- k-NN Classification and Features Selection
- Means Clustering and Hierarchical Clustering
- Ensemble Techniques and Qualitative Forecasting
- Hyper Parameters & Tuning
- Recommendation systems & Classification Model

Deep Learning & AI

- Natural Language Processing Techniques
- Syntactical and Semantic Processing
- Artificial Neural Networks
- Tensorflow & Keras Neural Network
- Reinforcement Learning Framework

PROGRAM INTRODUCTION

Machine Learning H2O Bootcamp Career Track

Career Path and Growth

ML & AI have transformed business processes across different industries vertical, changing the way how companies operate, capture and examine data, manage finances, and increase customer satisfaction and build new customers.

As per "insidebigdata", the Artificial Intelligence Startups Raised $61.6bn in Total Funding, a 35% Jump in a Year.

Machine-learning engineer ranking as the most in-demand technical skill in 2021. ML & AI jobs have jumped by almost 75% over the past four years and are poised to keep growing.

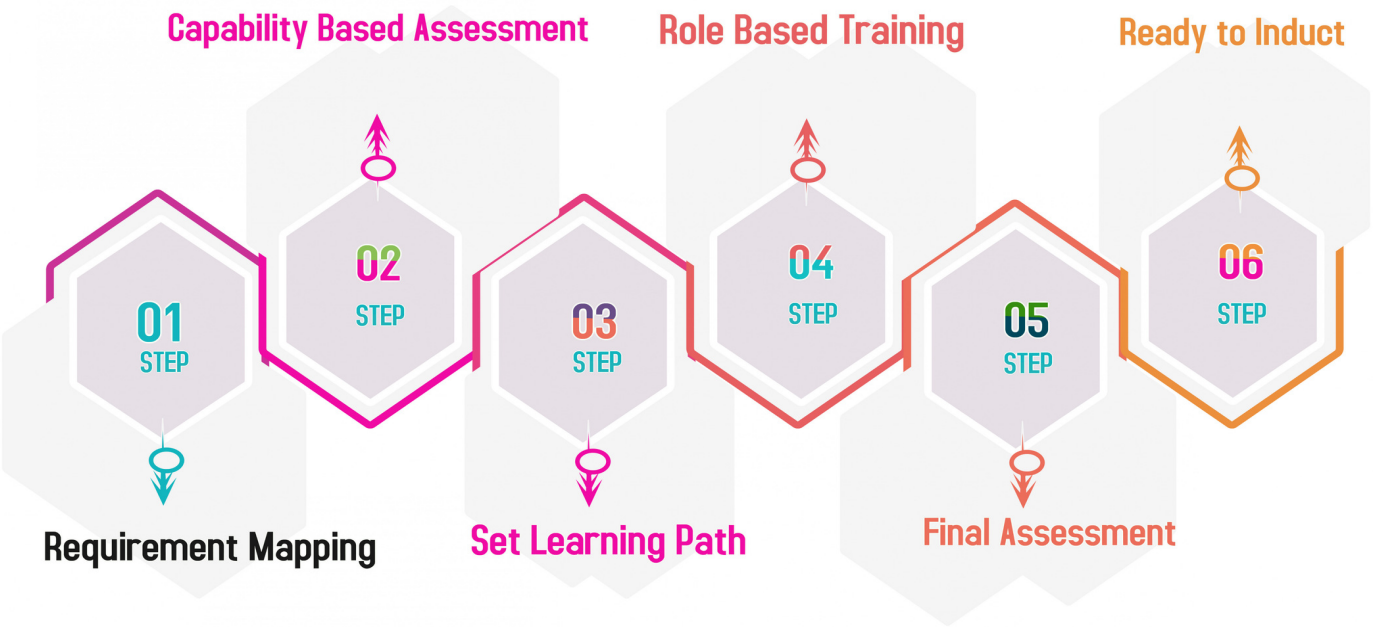
The H2O Bootcamp

H2O Machine Learning Career Track Courses include training in Python, SQL, Machine Learning, Deep Learning, Natural Language, and Artificial Intelligence with a focus on real-world application. Students will walk away with a portfolio of 6+ projects to show to potential employers as well as a capstone project.

The H2O Machine Learning Bootcamp also includes 3 Mock Interviews and Resume Preparation which spans the last 1 week of the course.

The participant will have access to an extensive network of professionals across the industry and post-course career support with TechPledge Tech community forum.

TechPledge H2O Bootcamp Path



PROGRAM ELIGIBILITY AND OUTCOME

Machine Learning and Artificial Intelligence

Who Should Opt for This Program?

- Working professionals looking to acquire Machine learning to boost their professional career.
- Early age career starters who looking to develop AI & ML engineering skills for their professional career growth.
- Technology Executive and project managers who are responsible to drive company digital journey with accurate predication and forecast.
- A software engineer looking to transition into machine learning, data mining, data visualization, and Ai Skills.

What Will You Achieve with This Program?

- Maximize your marketability by pursuing tech skills in demand to boost your professional career.
- Acquire Artificial Intelligence and Machine Learning skills for your professional career growth.
- Execute digital transformation project at your workplace with more confidence and drive better results with numbers and nearline forecast. .
- Reboot your career with new skills set you will learnings in bootcamp like data mining, Machine Learning and Artificial Intelligence. .

PROGRAM OUTLINE

Introduction to Data Science Tools and Process

Python Basic for Data Science

* Introduction to Python
* Python Basics
* Python Control Structure
* How to Use Python Packages
* Data Analytics & it's types
* NumPy for Mathematical Computing
* Scipy for Scientific Computing

Data Science with Python

* Pandas' Data Frame
* Importing Data
* Manipulating Data
* Data Munging Techniques
* Data Visualization using Matplotlib.
* Use Seaborn Libraries
* Assignment

Data Analysis Using Excel

* Basic of MS Excel
* Key Functionality
* Conditional Formatting
* Types of Functions
* Pivot Tables
* Data Sorting
* Filtering & Data Validation
* Summarizing Data
* Assignment

Data Analysis Using SQL

* FE, BE and Databases Concept
* SQL Schemas and Data Type
* Inserting Data
* Retrieving Data
* Updating Data & Delete Data
* Sorting and Filtering Data
* Using Subqueries
* Table Joining
* Assignment
* Module Test

Machine Learning Technique and Process

Statistical Methods for Decision Making

* Purpose of Statistical Models
* Pandas' Data Frame
* Measures of Central Tendency
* Mean, Median & Mode
* Standard deviation
* Variance

Machine Learning Introduction

* What is Machine Learning
* Machine Learning Use cases
* Deep Learning
* What is AI?
* Data Analytics & it's types.
* ETL process

Supervised Learning

* Linear Regression
* Multiple Variable Linear Regression
* Logistic Regression
* Naive Bayes
* k-NN Classification
* Support Vector Machine
* Assignment

Unsupervised Learning and Ensemble

* Means Clustering
* Hierarchical Clustering
* High-dimensional clustering
* Dimension Reduction-PCA
* Ensemble Techniques
* Bootstrap AGGregating
* Random Forest Models
* Assignment
* Module Test

Model Selection & Tuning

* Model Selection
* Measures Model performance
* Hyper Parameters & Tuning
* RandomSearchCV Approach
* GridSearchCV Approach
* Bootstrap Sampling
* Regularization
* dimension reduction

Recommended System

* Brief Of Recommendation Systems
* Types Of Recommendation Systems
* Popularity-Based RS
* Content-Based RS
* Classification Model
* Collaborative Filtering
* Hybrid Approach
* Assignment

Features Method

* Feature Selection Methods
* Statistics for Filter Feature Selection
* Regularization for Feature Selection
* Regression Feature Selection
* Classification Feature Selection
* Assignment

Forecast Method

* Forecasting Data Introduction
* Qualitative Forecasting
* Quantitative Forecasting
* Time series forecasting
* Naïve and SNaive
* ARIMA Approach
* Assignment
* Module Test

Artificial Intelligence Technique and Process

Natural Language Processing-NLP

* What is Natural Language Processing?
* NLP Used Cases
* Techniques Used In NLP
* Lemmatization Syntax Technique
* Morphological Segmentation
* Word segmentation
* Syntactical Processing
* Semantic Processing

Deep Learning & ANNs

* Introduction to Neural Network
* Artificial Neural Networks Overview
* Feed-Forward Neural Networks
* Recurrent Neural Network
* Multi-Layer Perceptrons (MLP)
* Gradient Descent Optimization
* Batch Normalization
* Tensorflow & Keras Neural Network

Reinforcement Learning

* Introduction to RL
* Elements of Reinforcement Learning
* Markov Decision Process
* Q Learning
* Reinforcement Learning Framework
* Use cases of RL
* Assignment

Deep Learning with Cloud

* Intrduction to Cloud Services
* AWS Computer Vision
* AWS Speech Recognition
* AWS Natural Language Processing
* Azure Congnitive Services
* Assignment
* Module Test

Industrial Projects & Interview Preparation

Projects with Capstone

* Movie Recommendations
* Sales Forecasting with Walmart
* Stock Price Predictions.
* Predictions of Win Quality
* Filter Specific Tweets
* Detecting Parkinson's disease

Interview Preparation

* Resume Preparation Service
* Linkdin Profile
* 3 Mock Interview
* Placement Consultant Connect
* Customer Immersion Session

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MACHINE LEARNING BOOTCAMP

MOST EFFECTIVE BOOTCAMP TRAINING FOR YEAR 2021

SCHEDULE AND PROGRAM FEE

- 3 Months
- 150 hrs Program
- 2.5 hrs on Weekday
- 4 hrs on Weekend

- USD 2270 (Incl Tx)
- 3 Equal Installment *

ABOUT US

We are Global #No 1 Online Job Based IT Training & Certification Provider focused on helping people acquire the new skills they need to thrive in the new digital world.

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