

Welcome to ineuron.ai



GCP Machine Learning Certification

Description:

This course will give you the skills you need to enhance your career, as well as instruction to help you prepare for the Google Cloud Professional Machine Learning Engineer certification.

Start Date:

Doubt Clear Time:

Course Time:

Features:

- # Course material
- # Course resources
- # On demand recorded videos
- # Practical exercises
- # Quizzes

Assignments

Course completion certificate

What we learn:

Big Data & ML Fundamentals

Recommendation System

BigQuery ML

BigQuery Keypoints

BigQuery Features

PubSub Features

AI Platform

DataPrep Tool

Understanding ML Workflow

What is vertex AI

Pricing

Managing ML Datasets with vertex AI

Managed dataset handson

Speech-to-Text using UI Console

Speech-to-text using gcloud

Speech-to-text using python library

Requirements:

System with Internet Connection

Interest to learn

Dedication

Instructor:

Name:

Khushali Shah

Description:

A data scientist having rich experience working with MNCs and start-ups in the field of data science and machine learning. She has expertise in Chatbot development for various domains & been developing professionally for 6+ years with diverse job history. She also had positions in software module development, web app development, functional designs, requirement gathering, client interaction, and server setup/admin & can help everywhere in the stack; she loves wearing multiple hats to an extent. She also believes in enhancing her skills by training and learning new things day by day.

>Introduction:

>>Syllabus Overview

>>Things to learn

>Big Data & ML Fundamentals:

>>Necessity of Compute Power for ML Workloads

>>Storage, networking & security importance

>>Big Data & Big query tools

>Recommendation System:

>>Recommendation System Fundamentals

>>Diff products of GCP for recommendation system

>>Practical:- Query Public Dataset in bigquery

>>Practical:- Loading and querying data

>BigQuery ML:

>>BigQuery ML

>>BigQuery Keypoints

>>BigQuery Features

>>Bigquery GIS Example

>>ML Flow

>>ML Process

>>BigQueryML create Model

>>BigqueryML evaluate model

>>BigqueryML predict model

>PubSub/Dataflow/Pipeline:

>>Overview of pipeline

>>PubSub Features

>>Core concepts

>>Hands-on send/receive messages with gcloud

>>Dataflow

>ML:

- >>Overview
- >>AI Platform
- >>DataPrep Tool
- >>Understanding ML Workflow
- >>What is vertex AI
- >>Pricing
- >>Managing ML Datasets with vertex AI
- >>Managed dataset handson
- >>Build & Train ML model with vertex AI
- >>Training a model using AutoML Vertex AI
- >>AutoML training & deployment
- >>AutoML prediction
- >>Clean up resources
- >>Overview of custom model
- >>Enable API
- >>Create Notebook instance
- >>Create container image
- >>custom ML model training with vertex AI
- >>Deployment
- >>Prediction
- >>Image classification application overview
- >>Collection of yoga pose image dataset
- >>Build image classification model with vertex AI

- >>Deployment & prediction
- >>Vertex AI SDK
- >>Vertex AI SDK code walkthrough
- >>Vertex AI SDK code walkthrough -2
- >>Vertex AI SDK handson-1
- >>Vertex AI SDK handson-2
- >>Vertex AI SDK handson-3
- >>Vertex AI SDK handson-4
- >>Vertex AI SDK handson-5
- >>Vertex AI SDK handson-6
- >>What is Hyperparameter tuning
- >>Hyperparameter tuning
- >>Hyperparameter tuning mechanism
- >>Hyperparameter tuning handson-1
- >>Hyperparameter tuning handson-2
- >>Hyperparameter tuning handson-3
- >>Hyperparameter tuning handson-4

>Conversational AI:

- >>Overview
- >>Speech-to-Text using UI Console
- >>Speech-to-text using gcloud
- >>Speech-to-text using python library
- >>Different types of Speech recognition

- >>Asynchronous speech recognition demo
- >>Assignment Speech-text for streaming data
- >>Cloud Text-to-Speech overview
- >>TTS using python handson
- >>TTS list down voices available
- >>TTS basics
- >>TTS SSML to audio handson
- >>Assignment Translating text from a photo
- >>Cloud Natural Language AI Overview
- >>Analyze sentiment
- >>Sentiment_analysis_in_different_language
- >>Analyze entities in a string
- >>Classify text
- >>Analyzing syntax
- >>Analyzing entity sentiment
- >>Video Intelligence
- >>Designing AI systems:**

- >>Problem overview
- >>Change in Data
- >>System Failure
- >>Concept of drift
- >>Risks in ML system
- >>Rules of ML

>>Best Practices of data

>>Hybrid ML Model

>>Kubeflow

>MLOps Fundamentals:

>>Basics

>>Implementation:- Creating GKE Cluster with kubeflow

>>Implementation:- defining custom component using KFP SDK

>>Implementation:- Running/deploying pipeline

>>CI/Cd pipeline

>>Cloud Build trigger

>Explainable AI:

>>Overview of explainable AI

>>Vertex Explainable AI

>GCP ML Certification sample questions:

>>QnA part-1

>>QnA part-2

>>QnA part-3