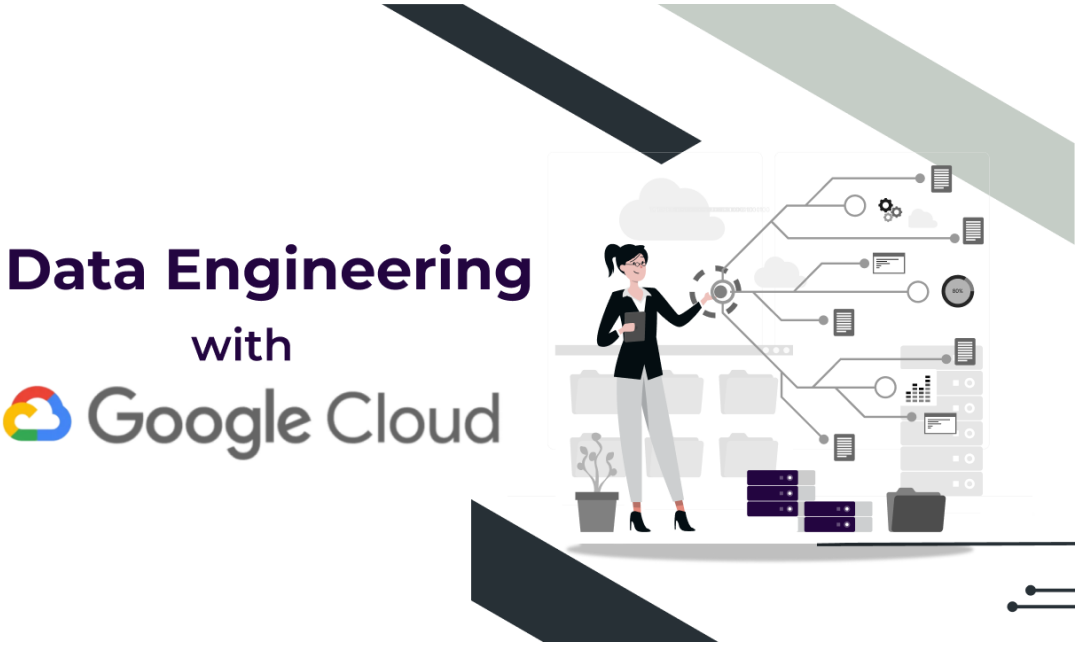
Welcome to ineuron.ai



Data Engineering with Google Cloud

Description:

By gathering, transforming, and releasing data, Data Engineers enable data-driven decision making. A Data Engineer should be able to design, implement, operationalize, secure, and monitor data processing systems, with a focus on security and compliance, scalability and efficiency, fidelity and dependability, and flexibility and portability. This course will teach you how to use Cloud Computing to learn the principles of data engineering.

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:

Necessity of Compute Power for ML Workloads

Storage, networking & security importance

Big Data & Big query tools

BigQuery ML

BigQuery Keypoints

BigQuery Features

Bigquery GIS Example

AI Platform

DataPrep Tool

Understanding ML Workflow

What is vertex AI

Image classification application overview

Collection of yoga pose image dataset

Build image classification model with vertex AI

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

>Big Data & ML Fundamentals:

>>Necessity of Compute Power for ML Workloads

>>Storage, networking & security importance

>>Big Data & Big query tools

>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

>>Handson 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

>Practical:

>>Creating data pipeline using dataprep and bigquery

>>Run data transformation pipeline

>>Data exploration of ecommerce dataset using Bigquery

>>Prediction using BQML