

The background is a solid dark blue color. It is decorated with several abstract geometric shapes. In the top left, there is a long, thin, orange-to-red gradient rectangle. To its right, there are several dark blue triangles and a larger dark blue hexagon. In the top center, there is a dark blue diamond. To the right of the diamond, there is a teal-to-blue gradient rectangle. In the top right, there is a dark blue triangle and a blue-to-purple gradient rectangle. The overall composition is modern and minimalist.

# **Deep Dive**

## **Module 2**

# Deep Dive

## Improving DL Models

- ❑ Improve Deep Learning Models performance & deep network tuning

<https://jonathan-hui.medium.com/improve-deep-learning-models-performance-network-tuning-part-6-29bf90df6d2d>

- ❑ How to Improve the Accuracy of Your Image Recognition Models

<https://www.freecodecamp.org/news/improve-image-recognition-model-accuracy-with-these-hacks/>

- ❑ Tuning the Hyperparameters and Layers of Neural Network Deep Learning

<https://www.analyticsvidhya.com/blog/2021/05/tuning-the-hyperparameters-and-layers-of-neural-network-deep-learning/>

- ❑ How is data prepared for machine learning?

<https://www.youtube.com/watch?v=P8ERBy91Y90>

## Training a NN

- ❑ What is TensorFlow? How it Works? Introduction & Architecture

<https://www.guru99.com/what-is-tensorflow.html>

- ❑ Build a Neural Network for Classification from Scratch with PyTorch

<https://www.youtube.com/watch?v=y6ibRbAdV3c>

# شكراً لكم

# Thank you



**SDAIA**

الهيئة السعودية للبيانات  
والذكاء الاصطناعي  
Saudi Data & AI Authority