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Course Lessons

- 1. <u>Keras With TensorFlow Prerequisites Getting Started With Neural Networks</u>
- 2. TensorFlow And Keras GPU Support CUDA GPU Setup
- 3. Keras With TensorFlow Data Processing For Neural Network Training
- 4. Create An Artificial Neural Network With TensorFlow's Keras API
- 5. Train An Artificial Neural Network With TensorFlow's Keras API
- 6. Build A Validation Set With TensorFlow's Keras API
- 7. Neural Network Predictions With TensorFlow's Keras API
- 8. Create A Confusion Matrix For Neural Network Predictions
- 9. Save And Load A Model With TensorFlow's Keras API
- 10. Image Preparation For Convolutional Neural Networks With TensorFlow's Keras API
- 11. Code Update For CNN Training With TensorFlow's Keras API
- 12. Build And Train A Convolutional Neural Network With TensorFlow's Keras API
- 13. Convolutional Neural Network Predictions With TensorFlow's Keras API
- 14. Build A Fine-Tuned Neural Network With TensorFlow's Keras API
- 15. Train A Fine-Tuned Neural Network With TensorFlow's Keras API
- 16. Predict With A Fine-Tuned Neural Network With TensorFlow's Keras API
- 17. MobileNet Image Classification With TensorFlow's Keras API
- 18. Process Images For Fine-Tuned MobileNet With TensorFlow's Keras API
- 19. Fine-Tuning MobileNet On Custom Data Set With TensorFlow's Keras API
- 20. Data Augmentation With TensorFlow's Keras API
- 21. <u>Mapping Keras Labels To Image Classes</u>
- 22. Reproducible Results With Keras
- 23. <u>Initializing And Accessing Bias With Keras</u>
- 24. <u>Learnable Parameters ("Trainable Params")</u> In A Keras Model
- 25. <u>Learnable Parameters ("Trainable Params") In A Keras Convolutional Neural Network</u>
- 26. <u>Deploy Keras Neural Network To Flask Web Service | Part 1 Overview</u>
- 27. Deploy Keras Neural Network To Flask Web Service | Part 2 Build Your First Flask App
- 28. <u>Deploy Keras Neural Network To Flask Web Service | Part 3 Send And Receive Data With Flask</u>
- 29. <u>Deploy Keras Neural Network To Flask Web Service | Part 4 Build A Front End Web Application</u>
- 30. <u>Deploy Keras Neural Network To Flask Web Service | Part 5 Host VGG16 Model With Flask</u>
- 31. <u>Deploy Keras Neural Network To Flask Web Service | Part 6 Build Web App To Send Images To VGG16</u>
- 32. <u>Deploy Keras Neural Network To Flask Web Service | Part 7 Visualizations With D3, DC, Crossfilter</u>
- 33. Deploy Keras Neural Network To Flask Web Service | Part 8 Access Model From Powershell, Curl
- 34. Deploy Keras Neural Network To Flask Web Service | Part 9 Information Privacy, Data Protection
- 35. TensorFlow.Js Introducing Deep Learning With Client-Side Neural Networks
- 36. TensorFlow.Js Convert Keras Model To Layers API Format
- 37. TensorFlow.Js Serve Deep Learning Models With Node.Js And Express
- 38. TensorFlow.Js Building The UI For Neural Network Web App
- 39. TensorFlow.Js Loading The Model Into A Neural Network Web App
- 40. TensorFlow.Js Explore Tensor Operations Through VGG16 Preprocessing
- 41. TensorFlow.Js Examining Tensors With The Debugger
- 42. <u>Broadcasting Explained Tensors For Deep Learning And Neural Networks</u>
- 43. <u>TensorFlow.Js Running MobileNet In The Browser</u>



