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Titolo	Practical TensorFlow.js : deep learning in web app development / / Juan De Dios Santos Rivera
Pubbl/distr/stampa	[Place of publication not identified] : , : Apress, , [2020] ©2020
ISBN	1-4842-6273-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXIV, 303 p. 67 illus.)
Disciplina	006.31
Soggetti	Machine learning Artificial intelligence TensorFlow
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Welcome to TensorFlow.js -- Chapter 2: Training Our First Models -- Chapter 3: Doing k-means with ml5.js -- Chapter 4: Recognizing Handwritten Digits with Convolutional Neural Networks -- Chapter 5: Making a Game with PoseNet, a Pose Estimator Model -- Chapter 6: Identifying Toxic Text from a Google Chrome Extension -- Chapter 7: Object Detection with a Model Trained in Google Cloud AutoML -- Chapter 8: Training an Image Classifier with Transfer Learning on Node.js -- Chapter 9: Time Series Forecasting and Text Generation with Recurrent Neural Networks -- Chapter 10: Generating Handwritten Digits with Generative Adversarial Networks -- Chapter 11: Things to Remember, What's Next for You, and Final Words -- Appendix A: Apache License 2.0.
Sommario/riassunto	Develop and deploy deep learning web apps using the TensorFlow.js library. TensorFlow. js is part of a bigger framework named TensorFlow, which has many tools that supplement it, such as TensorBoard , ml5js , tfjs-vis. This book will cover all these technologies and show they integrate with TensorFlow. js to create intelligent web apps. The most common and accessible platform users interact with everyday is their web browser, making it an ideal environment to deploy AI systems. TensorFlow.js is a well-known and

battle-tested library for creating browser solutions. Working in JavaScript, the so-called language of the web, directly on a browser, you can develop and serve deep learning applications.You'll work with deep learning algorithms such as feedforward neural networks, convolutional neural networks (CNN), recurrent neural networks (RNN), and generative adversarial network (GAN). Through hands-on examples, apply these networks in use cases related to image classification, natural language processing, object detection, dimensionality reduction, image translation, transfer learning, and time series analysis. Also, these topics are very varied in terms of the kind of data they use, their output, and the training phase. Not everything in machine learning is deep networks, there is also what some call shallow or traditional machine learning. While TensorFlow.js is not the most common place to implement these, you'll be introduce them and review the basics of machine learning through TensorFlow.js. You will: Build deep learning products suitable for web browsers Work with deep learning algorithms such as feedforward neural networks, convolutional neural networks (CNN), recurrent neural networks (RNN), and generative adversarial network (GAN) Develop apps using image classification, natural language processing, object detection, dimensionality reduction, image translation, transfer learning, and time series analysis.

2.

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Autore	McMahill Dan
Titolo	Automated Calibration of Modulated Frequency Synthesizers [[electronic resource] /] / by Dan McMahill
Pubbl/distr/stampa	New York, NY : , : Springer US : , : Imprint : Springer, , 2002
ISBN	1-280-20003-0 9786610200030 0-306-47516-2
Edizione	[1st ed. 2002.]
Descrizione fisica	1 online resource (173 p.)
Collana	The Springer International Series in Engineering and Computer Science ; ; 650
Disciplina	621.3815/486
Soggetti	Electronic circuits Electrical engineering Electronic Circuits and Systems Electrical and Electronic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Architectures -- System Requirements -- Automatic Calibration System -- Implementation Details -- Experimental Results -- Summary and Conclusions.
Sommario/riassunto	In recent years, there has been considerable interest in highly integrated, low power, portable wireless devices. There are three primary areas to be addressed when higher performance and lower power is desired. The first area is the device technology. Scaling of devices has realized steady improvements for many years. The second area is improved circuit design techniques. The final area is at the architectural level. This monograph focuses on the problem of low power GFSK/GMSK modulation and presents an architectural approach for improved performance. The new architecture is a modulated S-D fractional-N frequency synthesizer. The key innovation is an automatic calibration technique, which operates in the background. The availability of the calibration circuit makes high data rate, low power modulation possible. From the Foreword: "The key contribution of the work presented in this monograph is a technique for in service

automatic calibration of the modulated frequency synthesizer by ensuring that the digital emphasis filter and analog loop filter characteristics are matched. The automatic calibration circuit operates while the transmitter is in service and compensates for process and temperature variation. GFSK and 4-GFSK modulation was demonstrated at data rates of 2.5 Mb/s and 5 Mb/s respectively at an RF output carrier frequency of 1.8 GHz. ... In addition, he presents some valuable tools for the practicing engineer in this field." by Charles G. Sodini.