Table 1. MobileNet Body Architecture

Type / Stride	Filter Shape	Input Size
Conv / s2	$3 \times 3 \times 3 \times 32$	$224 \times 224 \times 3$
Conv dw / s1	$3 \times 3 \times 32$ dw	$112 \times 112 \times 32$
Conv / s1	$1 \times 1 \times 32 \times 64$	$112 \times 112 \times 32$
Conv dw / s2	$3 \times 3 \times 64$ dw	$112 \times 112 \times 64$
Conv / s1	$1 \times 1 \times 64 \times 128$	$56 \times 56 \times 64$
Conv dw / s1	$3 \times 3 \times 128$ dw	$56 \times 56 \times 128$
Conv / s1	$1 \times 1 \times 128 \times 128$	$56 \times 56 \times 128$
Conv dw / s2	$3 \times 3 \times 128$ dw	$56 \times 56 \times 128$
Conv / s1	$1 \times 1 \times 128 \times 256$	$28 \times 28 \times 128$
Conv dw / s1	$3 \times 3 \times 256$ dw	$28 \times 28 \times 256$
Conv / s1	$1 \times 1 \times 256 \times 256$	$28 \times 28 \times 256$
Conv dw / s2	$3 \times 3 \times 256$ dw	$28 \times 28 \times 256$
Conv / s1	$1 \times 1 \times 256 \times 512$	$14 \times 14 \times 256$
$5\times$ Conv dw / s1	$3 \times 3 \times 512$ dw	$14 \times 14 \times 512$
Conv / s1	$1 \times 1 \times 512 \times 512$	$14 \times 14 \times 512$
Conv dw / s2	$3 \times 3 \times 512$ dw	$14 \times 14 \times 512$
Conv / s1	$1 \times 1 \times 512 \times 1024$	$7 \times 7 \times 512$
Conv dw / s2	$3 \times 3 \times 1024$ dw	$7 \times 7 \times 1024$
Conv / s1	$1 \times 1 \times 1024 \times 1024$	$7 \times 7 \times 1024$
Avg Pool / s1	Pool 7×7	$7 \times 7 \times 1024$
FC / s1	1024×1000	$1 \times 1 \times 1024$
Softmax / s1	Classifier	$1 \times 1 \times 1000$

Mobilenet Tensorflow

Jeff Tang

Mobilenet Tensorflow:

AI and Machine Learning for Coders Laurence Moroney,2020-10-01 If you re looking to make a career move from programmer to AI specialist this is the ideal place to start Based on Laurence Moroney s extremely successful AI courses this introductory book provides a hands on code first approach to help you build confidence while you learn key topics You ll understand how to implement the most common scenarios in machine learning such as computer vision natural language processing NLP and sequence modeling for web mobile cloud and embedded runtimes Most books on machine learning begin with a daunting amount of advanced math This guide is built on practical lessons that let you work directly with the code You ll learn How to build models with TensorFlow using skills that employers desire The basics of machine learning by working with code samples How to implement computer vision including feature detection in images How to use NLP to tokenize and sequence words and sentences Methods for embedding models in Android and iOS How to serve models over the web and in the cloud with TensorFlow Serving **Advanced TypeScript Programming Projects** Peter O'Hanlon,2019-07-26 Gain in depth knowledge of TypeScript and the latest ECMAScript standards by building robust web applications across different domains Key FeaturesApply the cutting edge features of TypeScript 3 0 to build high performance maintainable applicationsLearn through practical examples of using TypeScript with popular frameworks such as Angular and React Focus on building high quality applications that are modular scalable and adaptableBook Description With the demand for ever more complex websites the need to write robust standard compliant JavaScript has never been greater TypeScript is modern JavaScript with the support of a first class type system which makes it simpler to write complex web systems With this book you ll explore core concepts and learn by building a series of websites and TypeScript apps You ll start with an introduction to TypeScript features that are often overlooked in other books before moving on to creating a simple markdown parser You ll then explore React and get up to speed with creating a client side contacts manager Next the book will help you discover the Angular framework and use the MEAN stack to create a photo gallery Later sections will assist you in creating a GraphQL Angular Todo app and then writing a Socket IO chatroom The book will also lead you through developing your final Angular project which is a mapping app As you progress you ll gain insights into React with Docker and microservices You ll even focus on how to build an image classification program with machine learning using TensorFlow Finally you ll learn to combine TypeScript and C to create an ASP NET Core based music library app By the end of this book you ll be able to confidently use TypeScript 3 0 and different JavaScript frameworks to build high quality apps What you will learnDiscover how to use TypeScript to write code using common patternsGet to grips with using popular frameworks and libraries with TypeScriptLeverage the power of both server and client using TypeScriptLearn how to apply exciting new paradigms such as GraphQL and TensorFlowUse popular cloud based authenticated servicesCombine TypeScript with C to create ASP NET Core applicationsWho this book is for This book is for programmers and web developers who are familiar with TypeScript and

want to put their knowledge to work by building real world complex applications Prior experience with any other web framework is not required **Visual Inference for IoT Systems: A Practical Approach** Delia Velasco-Montero,Jorge Fernández-Berni,Angel Rodríguez-Vázquez,2022-01-28 This book presents a systematic approach to the implementation of Internet of Things IoT devices achieving visual inference through deep neural networks Practical aspects are covered with a focus on providing guidelines to optimally select hardware and software components as well as network architectures according to prescribed application requirements The monograph includes a remarkable set of experimental results and functional procedures supporting the theoretical concepts and methodologies introduced A case study on animal recognition based on smart camera traps is also presented and thoroughly analyzed In this case study different system alternatives are explored and a particular realization is completely developed Illustrations numerous plots from simulations and experiments and supporting information in the form of charts and tables make Visual Inference and IoT Systems A Practical Approach a clear and detailed guide to the topic It will be of interest to researchers industrial practitioners and graduate students in the fields of computer vision and IoT **Mobile Artificial Intelligence Projects** Karthikeyan NG,Arun Padmanabhan,Matt R. Cole,2019-03-30 Learn to build end to end AI apps from scratch for Android and iOS using TensorFlow Lite CoreML and PyTorch Key FeaturesBuild practical real world AI projects on Android and iOSImplement tasks such as recognizing handwritten digits sentiment analysis and moreExplore the core functions of machine learning deep learning and mobile visionBook Description We re witnessing a revolution in Artificial Intelligence thanks to breakthroughs in deep learning Mobile Artificial Intelligence Projects empowers you to take part in this revolution by applying Artificial Intelligence AI techniques to design applications for natural language processing NLP robotics and computer vision This book teaches you to harness the power of AI in mobile applications along with learning the core functions of NLP neural networks deep learning and mobile vision It features a range of projects covering tasks such as real estate price prediction recognizing hand written digits predicting car damage and sentiment analysis You will learn to utilize NLP and machine learning algorithms to make applications more predictive proactive and capable of making autonomous decisions with less human input In the concluding chapters you will work with popular libraries such as TensorFlow Lite CoreML and PyTorch across Android and iOS platforms By the end of this book you will have developed exciting and more intuitive mobile applications that deliver a customized and more personalized experience to users What you will learnExplore the concepts and fundamentals of AI deep learning and neural networksImplement use cases for machine vision and natural language processingBuild an ML model to predict car damage using TensorFlowDeploy TensorFlow on mobile to convert speech to textImplement GAN to recognize hand written digitsDevelop end to end mobile applications that use AI principlesWork with popular libraries such as TensorFlow Lite CoreML and PyTorchWho this book is for Mobile Artificial Intelligence Projects is for machine learning professionals deep learning engineers AI engineers and software engineers who want to integrate AI technology into mobile

based platforms and applications Sound knowledge of machine learning and experience with any programming language is all you need to get started with this book   **Proceedings of the Second International Conference on Artificial Intelligence and Communication Technologies (ICAICT 2024)** Lakhmi C. Jain,Roumiana Kountcheva,Kazumi Nakamatsu,2025-03-06 This book gathers selected papers presented at the International Conference on Artificial Intelligence and Communication Technologies ICAICT2024 held at Shenzhen China during June 2024 The first volume of the proceedings is focused on the newest methods and algorithms in smart wireless communications in the areas of remote sensing and machine learning intelligent image and data processing health systems and security intelligent teaching applications and many others   **Data Mining and Information Security** Abhishek Bhattacharya,Soumi Dutta,Sheng-Lung Peng,Xin She Yang,2025-10-01 This book features research papers presented at the International Conference on Data Mining and Information Security ICDMIS 2024 held at Eminent College of Management and Technology ECMT West Bengal India during October 7 8 2024 The book is organized in five volumes and includes high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of Things IoT and information security   Green Artificial Intelligence and Industrial Applications (G-AIIA) Sarat Chandra Nayak,Satchidananda Dehuri,Sung-Bae Cho,Margarita Favorskaya,2025-10-01 This proceeding book explores emerging field of Green AI which emphasizes innovations to make AI more environmentally sustainable Green AI seeks to mitigate the environmental impact of AI technologies by streamlining algorithms enhancing hardware efficiency and adopting eco friendly data management practices all while maintaining the high performance that modern AI systems promise It addresses the challenges and opportunities associated with reducing AI s energy consumption lowering carbon emissions and promoting ethical and responsible AI practices The book insights into the development of energy efficient algorithms by design Green in AI as well as algorithms specifically created to tackle environmental challenges Green by AI It highlights the potential of Green AI in fostering a more sustainable technological future which inspires researchers engineers and innovators to pursue ideas and solutions that balance technological advancement with environmental stewardship   **Artificial Intelligence, Medical Engineering and Education** Qingying Zhang,Matthew He,Felix Yanovsky,2024-02-15 Artificial Intelligence AI is a rapidly developing field of computer science which now plays an increasingly important role in many disciplines A catalyst for significant change research into AI is of particular importance in fields such as medicine and education and as such has become an area to watch for many people worldwide This book presents the proceedings of AIMEE 2023 the 7th International Conference on Artificial Intelligence Medical Engineering and Education held on 9 and 10 November 2023 in Guangzhou China The conference brought together top international researchers from around the world to exchange research results and address open issues in AI medical engineering and education A total of 238 submissions were received

for AIMEE 2023 of which 89 papers were selected for presentation and publication after a rigorous international peer review process The book is divided into 3 sections covering artificial intelligence and scientific methodology systems engineering and analysis concepts methods and applications and education reform and innovation Presenting papers which explore and discuss many novel concepts and methodologies contributing to the rapid evolution of artificial intelligence and its applications the book will be of interest to all those working in the relevant fields **Learning TensorFlow.js** Gant Laborde,2021-05-10 Given the demand for AI and the ubiquity of JavaScript TensorFlow js was inevitable With this Google framework seasoned AI veterans and web developers alike can help propel the future of AI driven websites In this guide author Gant Laborde Google Developer Expert in machine learning and the web provides a hands on end to end approach to TensorFlow js fundamentals for a broad technical audience that includes data scientists engineers web developers students and researchers You ll begin by working through some basic examples in TensorFlow js before diving deeper into neural network architectures DataFrames TensorFlow Hub model conversion transfer learning and more Once you finish this book you ll know how to build and deploy production readydeep learning systems with TensorFlow js Explore tensors the most fundamental structure of machine learning Convert data into tensors and back with a real world example Combine AI with the web using TensorFlow js Use resources to convert train and manage machine learning data Build and train your own training models from scratch *Machine Learning Projects for Mobile Applications* Karthikeyan NG,2018-10-31 Bring magic to your mobile apps using TensorFlow Lite and Core ML Key FeaturesExplore machine learning using classification analytics and detection tasks Work with image text and video datasets to delve into real world tasksBuild apps for Android and iOS using Caffe Core ML and Tensorflow LiteBook Description Machine learning is a technique that focuses on developing computer programs that can be modified when exposed to new data We can make use of it for our mobile applications and this book will show you how to do so The book starts with the basics of machine learning concepts for mobile applications and how to get well equipped for further tasks You will start by developing an app to classify age and gender using Core ML and Tensorflow Lite You will explore neural style transfer and get familiar with how deep CNNs work We will also take a closer look at Google s ML Kit for the Firebase SDK for mobile applications You will learn how to detect handwritten text on mobile You will also learn how to create your own Snapchat filter by making use of facial attributes and OpenCV You will learn how to train your own food classification model on your mobile all of this will be done with the help of deep learning techniques Lastly you will build an image classifier on your mobile compare its performance and analyze the results on both mobile and cloud using TensorFlow Lite with an RCNN By the end of this book you will not only have mastered the concepts of machine learning but also learned how to resolve problems faced while building powerful apps on mobiles using TensorFlow Lite Caffe2 and Core ML What you will learnDemystify the machine learning landscape on mobileAge and gender detection using TensorFlow Lite and Core MLUse ML Kit for Firebase for in text detection face detection and barcode

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Deep Learning and Reinforcement Learning apps for multiple platforms with TensorFlow Key Features Build TensorFlow powered AI applications for mobile and embedded devices Learn modern AI topics such as computer vision NLP and deep reinforcement learning Get practical insights and exclusive working code not available in the TensorFlow documentation Book Description As a developer you always need to keep an eye out and be ready for what will be trending soon while also focusing on what s trending currently So what s better than learning about the integration of the best of both worlds the present and the future Artificial Intelligence AI is widely regarded as the next big thing after mobile and Google s TensorFlow is the leading open source machine learning framework the hottest branch of AI This book covers more than 10 complete iOS Android and Raspberry Pi apps powered by TensorFlow and built from scratch running all kinds of cool TensorFlow models offline on device from computer vision speech and language processing to generative adversarial networks and AlphaZero like deep reinforcement learning You ll learn how to use or retrain existing TensorFlow models build your own models and develop intelligent mobile apps running those TensorFlow models You ll learn how to quickly build such apps with step by step tutorials and how to avoid many pitfalls in the process with lots of hard earned troubleshooting tips What you will learn Classify images with transfer learning Detect objects and their locations Transform pictures with amazing art styles Understand simple speech commands Describe images in natural language Recognize drawing with Convolutional Neural Network and Long Short Term Memory Predict stock price with Recurrent Neural Network in TensorFlow and Keras Generate and enhance images with generative adversarial networks Build AlphaZero like mobile game app in TensorFlow and Keras Use TensorFlow Lite and Core ML on mobile Develop TensorFlow apps on Raspberry Pi that can move see listen speak and learn Who this book is for If you re an iOS Android developer interested in building and retraining others TensorFlow models and running them in your mobile apps or if you re a TensorFlow developer and want to run your new and amazing TensorFlow models on mobile devices this book is for you You ll also benefit from this book if you re interested in TensorFlow Lite Core ML or TensorFlow on Raspberry Pi   **Hands-On Deep Learning Architectures with Python** Yuxi (Hayden) Liu,Saransh Mehta,2019-04-30 Concepts tools and techniques to explore deep learning architectures and methodologies Key FeaturesExplore advanced deep learning architectures using various datasets and frameworksImplement deep architectures for neural network models such as CNN RNN GAN and many moreDiscover design patterns and different challenges for various deep learning architecturesBook Description Deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data This book will help you learn and implement deep learning architectures to resolve various deep learning research problems Hands On Deep Learning Architectures with Python explains the essential learning algorithms used for deep and shallow architectures Packed with practical implementations and ideas to help you build efficient artificial intelligence systems AI this book will help you learn how neural networks play a major role in building deep

architectures You will understand various deep learning architectures such as AlexNet VGG Net GoogleNet with easy to follow code and diagrams In addition to this the book will also guide you in building and training various deep architectures such as the Boltzmann mechanism autoencoders convolutional neural networks CNNs recurrent neural networks RNNs natural language processing NLP GAN and more all with practical implementations By the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture You will be ready to explore the potential of deep architectures in today s world What you will learnImplement CNNs RNNs and other commonly used architectures with PythonExplore architectures such as VGGNet AlexNet and GoogLeNetBuild deep learning architectures for AI applications such as face and image recognition fraud detection and many moreUnderstand the architectures and applications of Boltzmann machines and autoencoders with concrete examples Master artificial intelligence and neural network concepts and apply them to your architectureUnderstand deep learning architectures for mobile and embedded systemsWho this book is for If you re a data scientist machine learning developer engineer or deep learning practitioner or are curious about AI and want to upgrade your knowledge of various deep learning architectures this book will appeal to you You are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book **Hands-On Machine Learning with TensorFlow.js** Kai Sasaki,2019-11-27 Hands On Machine Learning with TensorFlow js is a comprehensive guide that will help you easily get started with machine learning algorithms and techniques using TensorFlow js By the end of this book you will be able to create and optimize your own web based machine learning applications using practical examples *Mastering Computer Vision with TensorFlow 2.x* Krishnendu Kar,2020-05-15 Apply neural network architectures to build state of the art computer vision applications using the Python programming language Key FeaturesGain a fundamental understanding of advanced computer vision and neural network models in use todayCover tasks such as low level vision image classification and object detectionDevelop deep learning models on cloud platforms and optimize them using TensorFlow Lite and the OpenVINO toolkitBook Description Computer vision allows machines to gain human level understanding to visualize process and analyze images and videos This book focuses on using TensorFlow to help you learn advanced computer vision tasks such as image acquisition processing and analysis You ll start with the key principles of computer vision and deep learning to build a solid foundation before covering neural network architectures and understanding how they work rather than using them as a black box Next you ll explore architectures such as VGG ResNet Inception R CNN SSD YOLO and MobileNet As you advance you ll learn to use visual search methods using transfer learning You ll also cover advanced computer vision concepts such as semantic segmentation image inpainting with GAN s object tracking video segmentation and action recognition Later the book focuses on how machine learning and deep learning concepts can be used to perform tasks such as edge detection and face recognition You ll then discover how to develop powerful neural network models on your PC and on various cloud platforms Finally you ll

learn to perform model optimization methods to deploy models on edge devices for real time inference By the end of this book you ll have a solid understanding of computer vision and be able to confidently develop models to automate tasks What you will learnExplore methods of feature extraction and image retrieval and visualize different layers of the neural network modelUse TensorFlow for various visual search methods for real world scenariosBuild neural networks or adjust parameters to optimize the performance of modelsUnderstand TensorFlow DeepLab to perform semantic segmentation on images and DCGAN for image inpaintingEvaluate your model and optimize and integrate it into your application to operate at scaleGet up to speed with techniques for performing manual and automated image annotationWho this book is for This book is for computer vision professionals image processing professionals machine learning engineers and AI developers who have some knowledge of machine learning and deep learning and want to build expert level computer vision applications In addition to familiarity with TensorFlow Python knowledge will be required to get started with this book   *Advanced Deep Learning with TensorFlow 2 and Keras* Rowel Atienza,2020   **TensorFlow 2.0 Quick Start Guide** Tony Holdroyd,2019-03-29 Perform supervised and unsupervised machine learning and learn advanced techniques such as training neural networks Key FeaturesTrain your own models for effective prediction using high level Keras API Perform supervised and unsupervised machine learning and learn advanced techniques such as training neural networksGet acquainted with some new practices introduced in TensorFlow 2 0 AlphaBook Description TensorFlow is one of the most popular machine learning frameworks in Python With this book you will improve your knowledge of some of the latest TensorFlow features and will be able to perform supervised and unsupervised machine learning and also train neural networks After giving you an overview of what s new in TensorFlow 2 0 Alpha the book moves on to setting up your machine learning environment using the TensorFlow library You will perform popular supervised machine learning tasks using techniques such as linear regression logistic regression and clustering You will get familiar with unsupervised learning for autoencoder applications The book will also show you how to train effective neural networks using straightforward examples in a variety of different domains By the end of the book you will have been exposed to a large variety of machine learning and neural network TensorFlow techniques What you will learnUse tf Keras for fast prototyping building and training deep learning neural network modelsEasily convert your TensorFlow 1 12 applications to TensorFlow 2 0 compatible filesUse TensorFlow to tackle traditional supervised and unsupervised machine learning applicationsUnderstand image recognition techniques using TensorFlowPerform neural style transfer for image hybridization using a neural networkCode a recurrent neural network in TensorFlow to perform text style generationWho this book is for Data scientists machine learning developers and deep learning enthusiasts looking to quickly get started with TensorFlow 2 will find this book useful Some Python programming experience with version 3 6 or later along with a familiarity with Jupyter notebooks will be an added advantage Exposure to machine learning and neural network techniques would also be helpful   Practical Deep Learning for Cloud, Mobile, and Edge Anirudh Koul,Siddha Ganju,Meher

Kasam,2019-10-14 Whether you re a software engineer aspiring to enter the world of deep learning a veteran data scientist or a hobbyist with a simple dream of making the next viral AI app you might have wondered where to begin This step by step guide teaches you how to build practical deep learning applications for the cloud mobile browsers and edge devices using a hands on approach Relying on years of industry experience transforming deep learning research into award winning applications Anirudh Koul Siddha Ganju and Meher Kasam guide you through the process of converting an idea into something that people in the real world can use Train tune and deploy computer vision models with Keras TensorFlow Core ML and TensorFlow Lite Develop AI for a range of devices including Raspberry Pi Jetson Nano and Google Coral Explore fun projects from Silicon Valley s Not Hotdog app to 40 industry case studies Simulate an autonomous car in a video game environment and build a miniature version with reinforcement learning Use transfer learning to train models in minutes Discover 50 practical tips for maximizing model accuracy and speed debugging and scaling to millions of users __Learn TensorFlow 2.0__ Pramod Singh,Avinash Manure,2019-12-17 Learn how to use TensorFlow 2 0 to build machine learning and deep learning models with complete examples The book begins with introducing TensorFlow 2 0 framework and the major changes from its last release Next it focuses on building Supervised Machine Learning models using TensorFlow 2 0 It also demonstrates how to build models using customer estimators Further it explains how to use TensorFlow 2 0 API to build machine learning and deep learning models for image classification using the standard as well as custom parameters You ll review sequence predictions saving serving deploying and standardized datasets and then deploy these models to production All the code presented in the book will be available in the form of executable scripts at Github which allows you to try out the examples and extend them in interesting ways What You ll Learn Review the new features of TensorFlow 2 0 Use TensorFlow 2 0 to build machine learning and deep learning models Perform sequence predictions using TensorFlow 2 0 Deploy TensorFlow 2 0 models with practical examples Who This Book Is For Data scientists machine and deep learning engineers

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