

## Mmdvm

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[MMDVM DMR Raspberry Pi Hotspot Assembly \u0026amp; Basic Setup](#)[The Road to the MMDVM](#)

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[Lets build an MMDVM hotspot together! Step by step!](#) [jumbospot cheap. RasPi zumspot DV Mega](#)

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[Nextion Screen DisplayMmdvm dual Nextion screens jumbo spot Pi star Mmdvm dual hat pi star ZUM Radio MMDVM Pi Mmdvm](#)

A MMDVM (Multi Mode Digital Voice Modem) is a link from your wires-x capable radio to a room on the wires-x system - allowing you to speak to other hams. This can be particularly useful when out and about as you don ' t need to link your radio in PDN mode to a laptop The software (Operating System) runs on a small computer called a raspberry pi

### MMDVM - WIRES-X.UK

The MMDVM should then load and join your router / network. Trouble shooting ; the most likely cause of it not joining, is you typed the Wi-Fi password incorrect, remember CAPITAL LETTERS are very important as well as the difference between 0 (zero a number) and O (the letter)

### The MMDVM Tutorial - WIRES-X.UK

MMDVM Hotspot; ME 10/6/2/70 mobile antenna; 30A 13.8V PSU; QYT KT8900D 2/70 tcvr; RF cable PL/ N connectors; RTL SDR receiver; SMA to PL/BNC/N adapt. NanoVNA Network Analysers; Contact us; Business hours; Directions; Payments via Paypal, Visa, Mastercard etc; MMDVM v1.7 Hotspot Fully assembled MMDVM Hotspot supporting P25, DMR, DSTAR and System Fusion. communications. All that is required is a ...

### MMDVM v1.7 Hotspot - Mirfield Electronics

The MMDVM is a hardware and software component that can interface radios to a computer, like a raspberry pi, turning normal analog radios into digital radios, much like a TNC for packet radio. The MMDVM-Repeater board is a lot like a hotspot, except it doesn ' t have a radio built onboard.

### How to make a MMDVM Digital Repeater - N5AMD's Digital ...

MMDVM is an open source software project licensed under GPL v2, but with a note to say that it is intended for amateur and educational use only, with commercial use strictly forbidden. This does seem possibly at odds with the GPL licence, but is likely to do with digital codec patents. The MMDVM firmware supports the following digital modes:

### Building a Digital Mobile Radio Repeater Part 1: MMDVM

From MMDVM set TXInvert=0 and RXInvert=1. Note that TX audio gain must be set quite high for DMR to operate properly. (OH3ERV 2018-09-16)  
Note that TX audio gain must be set quite high for DMR to operate properly.

### Homebrew/MMDVM - BrandMeister

The MMDVM POG board is a widely-available Raspberry Pi HAT. It uses an STM32F105RBT6 microcontroller with a simple analogue front-end to connect a Raspberry Pi to a radio transceiver. Warning - some MMDVM POG boards (especially the Chinese clones) are built in a Raspberry Pi HAT form-factor and have the 3.3V LDO regulator fitted.

### MMDVM POG board mods and notes [philpem.me.uk - Phil ...

This is the source code of the MMDVM firmware that supports D-Star, DMR, System Fusion, P25, NXDN, POCSAG, and FM modes. It runs on the Arduino Due, the ST-Micro STM32F1xxx, STM32F4xxx and STM32F7xxx processors, as well as the Teensy 3.1/3.2/3.5/3.6. What these platforms have in common is the use of an ARM Cortex-M3, M4, or M7 processors with a ...

### GitHub - g4klx/MMDVM: The firmware for the MMDVM (Multi ...

The MMDVM board just slides on the pins of the Raspberry Pi! Simple as that! There are 2 black pin connectors on the MMDVM and these just slip straight on the top of the Raspberry Pi, No soldering or anything required here. That is basically the hotspot put together! I know right! I didn ' t think it was going to be that easy either really but it is, just pop the antenna on the connector now ...

### Build your own cheap MMDVM Digital Hotspot using Pi-Star ...

the beginning of a Hotspot family the first will be a full sized MMDVM\_HS Raspberry Pi Hat made in North America it will be cost competitive, this will be followed by what we consider the logical extension to Hotspot's. Second product family will be a range of AMBE3000 Based USB keys from 1 Channel to 6 channels on a single USB key

### MMDVM

The RB\_STM32\_DVM is yet another Multi-Mode Digital Voice Modem that gives new life to analog repeaters by allowing them to become digital capable. The STM32 has an on-board microcomputer, so there is no need for a separate Arduino or other processor board. This board, plus a platform running MMDVMHost is all that is required.

### Repeater Builder STM32-DVM

GM340 & MMDVM Pi Hat A few people have asked me for info on the MMDVM Pi Hat and Motorola GM340 setup as used here for MB6ILC (works with most Motorola radios with facilities socket) The wire up is straight forward just use the labels on the MMDVM board and connect to the relevant pin.

GM340 & MMDVM Pi Hat – Leicester DMR Users Group

The only authorised site in the UK to get your DV-MEGA DualBand & Raspberry Rpi shields!

DV MEGA

Version: 1, description: MMDVM\_HS\_Hat-v1.4.17 20190529 14.7456MHz ADF7021 FW by CA6JAU GitID #cc451c4 The commands are: H/h Display help Q/q Quit W/w Enable/disable modem debug messages E/e Enter frequency (current: 433000000 Hz) F Increase frequency f Decrease frequency Z/z Enter frequency step T Increase deviation t Decrease deviation P Increase RF power p Decrease RF power C/c Carrier Only ...

Getting the best bit error rate (BER) from your Pi-star MMDVM

The GENESIS MMDVM UHF Raspberry PI Zero W Is A Stand - Alone WiFi Device - DMR/DSTAR/C4FM/P25/NXDN Single Band MMDVM Raspberry Pi Zero + OLED Screen + Antenna £ 80.00 Comes With A 16GB Class 10 SD Card With Pi-Star V4.1.2 Software Installed FREE! Silver Or Black Aluminium Cased Unit!

MMDVM PI Zero W - DV MEGA

2.MMDVM hotspot board x1 3.SMA 4.433Mhz antenna x1. Wifi Digital Voice Modem for MMDVM Hotspot Spot Radio is an easy, convenient and ready to use Multi-mode Hotspot that supports D-STAR/P25/DMR . Note: NOT INCLUDE Raspberry Pi

Hima Antenna + OLED + MMDVM Hotspot + Black Case: Amazon ...

MMDVM July 1 at 8:29 AM · Xastir running on top of the Linux AX25 Layer (also written by me in the 1990s) running on top of the MMDVM.

MMDVM <=> MMDVMHost <=> AX25 Layer <=> Xastir

MMDVM - Home | Facebook

ZUMSPOT-RPI rev 0.6 with 1.3 " OLED, antenna and standoffs DMR, D-Star, C4FM, P-25, NXDN Hotspot | Moonraker

Zumspot RPI | Moonraker

MMDVM. The firmware for the MMDVM (Multi-Mode Digital Voice Modem) C++ 266 130 YSFClients. System Fusion network servers; a gateway, a parrot and a reflector. C++ 56 72 P25Clients. Simple clients for P25. A gateway, parrot, and reflector. C++ 29 79 ...

Master advanced techniques and algorithms for deep learning with PyTorch using real-world examples Key Features Understand how to use PyTorch 1.x to build advanced neural network models Learn to perform a wide range of tasks by implementing deep learning algorithms and techniques Gain expertise in domains such as computer vision, NLP, Deep RL, Explainable AI, and much more Book Description Deep learning is driving the AI revolution, and PyTorch is making it easier than ever before for anyone to build deep learning applications. This PyTorch book will help you uncover expert techniques to get the most out of your data and build complex neural network models. The book starts with a quick overview of PyTorch and explores using convolutional neural network (CNN) architectures for image classification. You'll then work with recurrent neural network (RNN) architectures and transformers for sentiment analysis. As you advance, you'll apply deep learning across different domains, such as music, text, and image generation using generative models and explore the world of generative adversarial networks (GANs). You'll not only build and train your own deep reinforcement learning models in PyTorch but also deploy PyTorch models to production using expert tips and techniques. Finally, you'll get to grips with training large models efficiently in a distributed manner, searching neural architectures effectively with AutoML, and rapidly prototyping models using PyTorch and fast.ai. By the end of this PyTorch book, you'll be able to perform complex deep learning tasks using PyTorch to build smart artificial intelligence models. What you will learn Implement text and music generating models using PyTorch Build a deep Q-network (DQN) model in PyTorch Export universal PyTorch models using Open Neural Network Exchange (ONNX) Become well-versed with rapid prototyping using PyTorch with fast.ai Perform neural architecture search effectively using AutoML Easily interpret machine learning (ML) models written in PyTorch using Captum Design ResNets, LSTMs, Transformers, and more using PyTorch Find out how to use PyTorch for distributed training using the torch.distributed API Who this book is for This book is for data scientists, machine learning researchers, and deep learning practitioners looking to implement advanced deep learning paradigms using PyTorch 1.x. Working knowledge of deep learning with Python programming is required.

Create better and easy-to-use deep learning models with AutoKeras Key Features Design and implement your own custom machine learning models using the features of AutoKeras Learn how to use AutoKeras for techniques such as classification, regression, and sentiment analysis Get familiar with advanced concepts as multi-modal, multi-task, and search space customization Book Description AutoKeras is an AutoML open-source software library that provides easy access to deep learning models. If you are looking to build deep learning model architectures and perform parameter tuning automatically using AutoKeras, then this book is for you. This book teaches you how to develop and use state-of-the-art AI algorithms in your projects. It begins with a high-level introduction to automated machine learning, explaining all the concepts required to get started with this machine learning approach. You will then learn how to use AutoKeras for image and text classification and regression. As you make progress, you'll discover how to use AutoKeras to perform sentiment analysis on documents. This book will also show you how to implement a custom model for topic classification with AutoKeras. Toward the end, you will explore advanced concepts of AutoKeras such as working with multi-modal data and multi-task, customizing the model with AutoModel, and visualizing experiment results using AutoKeras Extensions. By the end of this machine learning book, you will be able to confidently use AutoKeras to design your own custom machine learning models in your company. What you will learn Set up a deep learning workstation with TensorFlow and AutoKeras Automate a machine learning pipeline with AutoKeras Create and implement image and text classifiers and regressors using AutoKeras Use AutoKeras to perform sentiment analysis of a text, classifying it as negative or positive Leverage AutoKeras to classify documents by topics Make the most of AutoKeras by using its most powerful extensions Who this book is for This book is for machine learning and deep learning enthusiasts who want to apply automated ML techniques to their projects. Prior basic knowledge of Python programming and machine learning is expected to get the most out of this book.

Get hands-on experience in creating state-of-the-art reinforcement learning agents using TensorFlow and RLlib to solve complex real-world business and industry problems with the help of expert tips and best practices Key Features Understand how large-scale state-of-the-art RL algorithms and approaches work Apply RL to solve complex problems in marketing, robotics, supply chain, finance, cybersecurity, and more Explore tips and best practices from experts that will enable you to overcome real-world RL challenges Book Description Reinforcement learning (RL) is a field of artificial intelligence (AI) used for creating self-learning autonomous agents. Building on a strong theoretical foundation, this book takes a practical approach and uses examples inspired by

real-world industry problems to teach you about state-of-the-art RL. Starting with bandit problems, Markov decision processes, and dynamic programming, the book provides an in-depth review of the classical RL techniques, such as Monte Carlo methods and temporal-difference learning. After that, you will learn about deep Q-learning, policy gradient algorithms, actor-critic methods, model-based methods, and multi-agent reinforcement learning. Then, you'll be introduced to some of the key approaches behind the most successful RL implementations, such as domain randomization and curiosity-driven learning. As you advance, you'll explore many novel algorithms with advanced implementations using modern Python libraries such as TensorFlow and Ray's RLlib package. You'll also find out how to implement RL in areas such as robotics, supply chain management, marketing, finance, smart cities, and cybersecurity while assessing the trade-offs between different approaches and avoiding common pitfalls. By the end of this book, you'll have mastered how to train and deploy your own RL agents for solving RL problems. What you will learn

Model and solve complex sequential decision-making problems using RL  
Develop a solid understanding of how state-of-the-art RL methods work  
Use Python and TensorFlow to code RL algorithms from scratch  
Parallelize and scale up your RL implementations using Ray's RLlib package  
Get in-depth knowledge of a wide variety of RL topics  
Understand the trade-offs between different RL approaches  
Discover and address the challenges of implementing RL in the real world

Who this book is for This book is for expert machine learning practitioners and researchers looking to focus on hands-on reinforcement learning with Python by implementing advanced deep reinforcement learning concepts in real-world projects. Reinforcement learning experts who want to advance their knowledge to tackle large-scale and complex sequential decision-making problems will also find this book useful. Working knowledge of Python programming and deep learning along with prior experience in reinforcement learning is required.

Build machine learning algorithms using graph data and efficiently exploit topological information within your models

Key Features

- Implement machine learning techniques and algorithms in graph data
- Identify the relationship between nodes in order to make better business decisions
- Apply graph-based machine learning methods to solve real-life problems

Book Description

Graph Machine Learning will introduce you to a set of tools used for processing network data and leveraging the power of the relation between entities that can be used for predictive, modeling, and analytics tasks. The first chapters will introduce you to graph theory and graph machine learning, as well as the scope of their potential use. You'll then learn all you need to know about the main machine learning models for graph representation learning: their purpose, how they work, and how they can be implemented in a wide range of supervised and unsupervised learning applications. You'll build a complete machine learning pipeline, including data processing, model training, and prediction in order to exploit the full potential of graph data. After covering the basics, you'll be taken through real-world scenarios such as extracting data from social networks, text analytics, and natural language processing (NLP) using graphs and financial transaction systems on graphs. You'll also learn how to build and scale out data-driven applications for graph analytics to store, query, and process network information, and explore the latest trends on graphs. By the end of this machine learning book, you will have learned essential concepts of graph theory and all the algorithms and techniques used to build successful machine learning applications. What you will learn

- Write Python scripts to extract features from graphs
- Distinguish between the main graph representation learning techniques
- Learn how to extract data from social networks, financial transaction systems, for text analysis, and more
- Implement the main unsupervised and supervised graph embedding techniques
- Get to grips with shallow embedding methods, graph neural networks, graph regularization methods, and more
- Deploy and scale out your application seamlessly

Who this book is for This book is for data scientists, data analysts, graph analysts, and graph professionals who want to leverage the information embedded in the connections and relations between data points to boost their analysis and model performance using machine learning. It will also be useful for machine learning developers or anyone who wants to build ML-driven graph databases. A beginner-level understanding of graph databases and graph data is required, alongside a solid understanding of ML basics. You'll also need intermediate-level Python programming knowledge to get started with this book.

Use a forty-dollar credit card-sized computer to enhance your amateur radio operating. Learn how to set up and configure the computer. Then learn how to install operating aids, such as logging, timekeeping, satellite tracking, and Morse code practicing. Communicate in sixteen digital modes. Design antennas and save, restore, and manage memory for your radios.

Get to grips with building robust XGBoost models using Python and scikit-learn for deployment

Key Features

- Get up and running with machine learning and understand how to boost models with XGBoost in no time
- Build real-world machine learning pipelines and fine-tune hyperparameters to achieve optimal results
- Discover tips and tricks and gain innovative insights from XGBoost Kaggle winners

Book Description

XGBoost is an industry-proven, open-source software library that provides a gradient boosting framework for scaling billions of data points quickly and efficiently. The book introduces machine learning and XGBoost in scikit-learn before building up to the theory behind gradient boosting. You'll cover decision trees and analyze bagging in the machine learning context, learning hyperparameters that extend to XGBoost along the way. You'll build gradient boosting models from scratch and extend gradient boosting to big data while recognizing speed limitations using timers. Details in XGBoost are explored with a focus on speed enhancements and deriving parameters mathematically. With the help of detailed case studies, you'll practice building and fine-tuning XGBoost classifiers and regressors using scikit-learn and the original Python API. You'll leverage XGBoost hyperparameters to improve scores, correct missing values, scale imbalanced datasets, and fine-tune alternative base learners. Finally, you'll apply advanced XGBoost techniques like building non-correlated ensembles, stacking models, and preparing models for industry deployment using sparse matrices, customized transformers, and pipelines. By the end of the book, you'll be able to build high-performing machine learning models using XGBoost with minimal errors and maximum speed. What you will learn

- Build gradient boosting models from scratch
- Develop XGBoost regressors and classifiers with accuracy and speed
- Analyze variance and bias in terms of fine-tuning XGBoost hyperparameters
- Automatically correct missing values and scale imbalanced data
- Apply alternative base learners like dart, linear models, and XGBoost random forests
- Customize transformers and pipelines to deploy XGBoost models
- Build non-correlated ensembles and stack XGBoost models to increase accuracy

Who this book is for This book is for data science professionals and enthusiasts, data analysts, and developers who want to build fast and accurate machine learning models that scale with big data. Proficiency in Python, along with a basic understanding of linear algebra, will help you to get the most out of this book.

Get your raw data cleaned up and ready for processing to design better data analytic solutions

Key Features

- Develop the skills to perform data cleaning, data integration, data reduction, and data transformation
- Make the most of your raw data with powerful data transformation and massaging techniques
- Perform thorough data cleaning, including dealing with missing values and outliers

Book Description

Hands-On Data Preprocessing is a primer on the best data cleaning and preprocessing techniques, written by an expert who's developed college-level courses on data preprocessing and related subjects. With this book, you'll be equipped with the optimum data preprocessing techniques from multiple perspectives, ensuring that you get the best possible insights from your data. You'll learn about different technical and analytical aspects of data preprocessing – data collection, data cleaning, data integration, data reduction, and data transformation – and get to grips with implementing them using the open source Python programming environment. The hands-on examples and easy-to-follow chapters will help you gain a comprehensive articulation of data preprocessing, its whys and hows, and identify opportunities where data analytics could lead to more effective decision making. As you progress through the chapters, you'll also understand the role of data management systems and technologies for effective analytics and how to use APIs to pull data. By the end of this Python data preprocessing book, you'll be able to use Python to read, manipulate, and analyze data; perform data cleaning, integration, reduction, and transformation techniques, and handle outliers or missing values to effectively prepare data for analytic tools. What you will learn

- Use Python to perform analytics functions on your data
- Understand the role of databases and how to effectively pull data from databases
- Perform data preprocessing steps defined by your analytics goals
- Recognize and resolve data integration challenges
- Identify the need for data reduction and execute it
- Detect opportunities to improve analytics with data transformation

Who this book is

for This book is for junior and senior data analysts, business intelligence professionals, engineering undergraduates, and data enthusiasts looking to perform preprocessing and data cleaning on large amounts of data. You don't need any prior experience with data preprocessing to get started with this book. However, basic programming skills, such as working with variables, conditionals, and loops, along with beginner-level knowledge of Python and simple analytics experience, are a prerequisite.

Do you love technology and/or electronics but you just don't really like crowds? Enjoy making things work but not meetings with a bunch of people? Have no problem communicating, just have no desire for long pointless conversations? Then amateur radio might have something for you! That's right, a hobby all about communications has something for the antisocial in you. This book will take you on a whirlwind tour of things you can do that require a minimum of social interactions. No club meetings, no conventions, no field days for you my friend, just a ton of fun projects and activities for those who prefer things to be short and to the point. If you are not really into social media, would prefer a root canal to the yearly office party, and want something to do that is just as fun as it is intellectually challenging, then grab a copy of this book today and learn what all you can do in amateur radio!

Build end-to-end industrial-strength NLP models using advanced morphological and syntactic features in spaCy to create real-world applications with ease  
Key Features  
Gain an overview of what spaCy offers for natural language processing  
Learn details of spaCy's features and how to use them effectively  
Work through practical recipes using spaCy  
Book Description  
spaCy is an industrial-grade, efficient NLP Python library. It offers various pre-trained models and ready-to-use features. Mastering spaCy provides you with end-to-end coverage of spaCy's features and real-world applications. You'll begin by installing spaCy and downloading models, before progressing to spaCy's features and prototyping real-world NLP apps. Next, you'll get familiar with visualizing with spaCy's popular visualizer displaCy. The book also equips you with practical illustrations for pattern matching and helps you advance into the world of semantics with word vectors. Statistical information extraction methods are also explained in detail. Later, you'll cover an interactive business case study that shows you how to combine all spaCy features for creating a real-world NLP pipeline. You'll implement ML models such as sentiment analysis, intent recognition, and context resolution. The book further focuses on classification with popular frameworks such as TensorFlow's Keras API together with spaCy. You'll cover popular topics, including intent classification and sentiment analysis, and use them on popular datasets and interpret the classification results. By the end of this book, you'll be able to confidently use spaCy, including its linguistic features, word vectors, and classifiers, to create your own NLP apps. What you will learn  
Install spaCy, get started easily, and write your first Python script  
Understand core linguistic operations of spaCy  
Discover how to combine rule-based components with spaCy statistical models  
Become well-versed with named entity and keyword extraction  
Build your own ML pipelines using spaCy  
Apply all the knowledge you've gained to design a chatbot using spaCy  
Who this book is for  
This book is for data scientists and machine learners who want to excel in NLP as well as NLP developers who want to master spaCy and build applications with it. Language and speech professionals who want to get hands-on with Python and spaCy and software developers who want to quickly prototype applications with spaCy will also find this book helpful. Beginner-level knowledge of the Python programming language is required to get the most out of this book. A beginner-level understanding of linguistics such as parsing, POS tags, and semantic similarity will also be useful.

Understand the complexities of modern-day data engineering platforms and explore strategies to deal with them with the help of use case scenarios led by an industry expert in big data  
Key Features  
Become well-versed with the core concepts of Apache Spark and Delta Lake for building data platforms  
Learn how to ingest, process, and analyze data that can be later used for training machine learning models  
Understand how to operationalize data models in production using curated data  
Book Description  
In the world of ever-changing data and schemas, it is important to build data pipelines that can auto-adjust to changes. This book will help you build scalable data platforms that managers, data scientists, and data analysts can rely on. Starting with an introduction to data engineering, along with its key concepts and architectures, this book will show you how to use Microsoft Azure Cloud services effectively for data engineering. You'll cover data lake design patterns and the different stages through which the data needs to flow in a typical data lake. Once you've explored the main features of Delta Lake to build data lakes with fast performance and governance in mind, you'll advance to implementing the lambda architecture using Delta Lake. Packed with practical examples and code snippets, this book takes you through real-world examples based on production scenarios faced by the author in his 10 years of experience working with big data. Finally, you'll cover data lake deployment strategies that play an important role in provisioning the cloud resources and deploying the data pipelines in a repeatable and continuous way. By the end of this data engineering book, you'll know how to effectively deal with ever-changing data and create scalable data pipelines to streamline data science, ML, and artificial intelligence (AI) tasks. What you will learn  
Discover the challenges you may face in the data engineering world  
Add ACID transactions to Apache Spark using Delta Lake  
Understand effective design strategies to build enterprise-grade data lakes  
Explore architectural and design patterns for building efficient data ingestion pipelines  
Orchestrate a data pipeline for preprocessing data using Apache Spark and Delta Lake APIs  
Automate deployment and monitoring of data pipelines in production  
Get to grips with securing, monitoring, and managing data pipelines models efficiently  
Who this book is for  
This book is for aspiring data engineers and data analysts who are new to the world of data engineering and are looking for a practical guide to building scalable data platforms. If you already work with PySpark and want to use Delta Lake for data engineering, you'll find this book useful. Basic knowledge of Python, Spark, and SQL is expected.

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