# Deep Learning For Event Driven Stock Prediction

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Deep Learning for Event-Driven Stock Prediction Event Driven with Spring Deep Learning State of the Art (2020) | MIT Deep Learning Series JuaraGCP Virtual Graduation Event Vijay Nair - Implementing Event Driven Architectures with Axon and Kafka *Analyzing the Limit Order Book - A Deep Learning Approach Trend Watch: The Sober Curious Generation* Using Apache Kafka to implement event-driven microservices *Prophesee. Learning from Events: on the Future of Machine Learning for Event-based Cameras* **GOTO 2017 • The Many Meanings of Event-Driven Architecture • Martin Fowler**

Hands-On Machine Learning with Scikit-Learn, Keras, \u0026

TensorFlow (Book Review)

Lesson 3 - Deep Learning for Coders (2020)How I got Google Cloud Professional Data Engineer Certified *The 7 steps of machine learning* Horse vs Camel Animal Running Race for Kids|which is faster *Machine Learning Books for Beginners Design Microservice Architectures the Right Way* **Coinbase stock IPO 2020 (Buy Cryptocurrency Trading App Stock?)** *Predicting Stock Prices - Learn Python for Data Science #4* Webhooks aka Reverse APIs Microservices Design Pattern - When to use Kafka and REST? | Tech Primers Is this the BEST BOOK on Machine Learning? Hands On Machine Learning Review **Deep Learning Book Chapter 6, \"\"Deep Feedforward Networks\" presented by Ian Goodfellow** Event Driven Development: Leveraging the

observer design pattern in Laravel *How Deep Learning Could Predict Weather Events These books will help you learn machine learning*

Keynote: Model-Based Machine Learning*Jay Kreps | Kafka Summit SF 2018 Keynote (Kafka and Event-Oriented Architecture)* ~~Deep Dive on Amazon EventBridge - AWS Online Tech Talks~~ *Event driven API Strategies: from WebHooks to GraphQL Subscriptions Deep Learning For Event Driven*

Deep Reinforcement Learning for Event-Driven Multi-Agent Decision Processes. Abstract: The incorporation of macro-actions (temporally extended actions) into multi-agent decision problems has the potential to address the curse of dimensionality associated with such decision problems. Since

macro-actions last for stochastic durations, multiple agents executing decentralized policies in cooperative environments must act asynchronously.

*Deep Reinforcement Learning for Event-Driven Multi-Agent ...*
We propose a deep learning method for event- driven stock market prediction. First, events are extracted from news text, and represented as dense vectors, trained using a novel neural tensor net- work. Second, a deep convolutional neural network is used to model both short-term and long-term in- ?uences of events on stock price movements.

*Deep Learning for Event-Driven Stock Prediction*
event-drivensimulators,ouralgorithmwill be the ?rst that uses

deep reinforcement learning to optimize decentralized macro-action policies in multi-agent environments. While other research on macro-actions allow for planning over multiple levels of hierarchy, this paper will focus on the case in which

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*Deep learning for event-driven stock prediction ...*

• Deep learning is useful for event-driven stock price movement prediction • Event embeddings -based document representations are better than discrete events-based methods • Deep CNN can help capture longer-term influence of news event

*Deep Learning for Event -Driven Stock Prediction*

Deep-Learning-for-Event-Driven-Stock-Prediction I refered the paper named "Deep Learning for Event Driven Stock Prediction" The authors used event extraction technique name ReVerb [Fader et al., 2011] and ZPar [Zhang and Clark, 2011]. But I used Standford Open Information Extraction Package named "openie" for simplification.

*GitHub - hskimim/Deep-Learning-for-Event-Driven-Stock ...*
Source: Deep Learning on Medium second mind tradingMar 25This is a walk-through of the paper “Deep Learning for Event-Driven Stock Prediction”

*Deep Learning for Event-Driven Stock Prediction – mc.ai*
In EBSN setup, selecting suitable venues for hosting events, which can attract a great turnout, is a key challenge. In this paper, we present a deep learning based venue recommendation system $DeepVenue$ which provides context driven venue recommendations for the Meetup event-hosts to host their events. The crux of the proposed model relies on the notion of similarity between multiple Meetup entities such as events, venues, groups, etc.

*Deep Learning Driven Venue Recommender for Event-Based ...*

Event-driven Continuous STDP Learning with Deep Structure for Visual Pattern Recognition Daqi Liu and Shigang Yue, Senior Member, IEEE Abstract—Human beings can achieve reliable and fast visual pattern recognition with limited time and learning samples. Underlying this capability, ventral stream plays an important

*Event-driven Continuous STDP Learning with Deep Structure ...*

Building on these results, we demonstrate an event-driven random BP (eRBP) rule that uses an error-modulated

synaptic plasticity for learning deep representations. Using a two-compartment Leaky Integrate & Fire (I&F) neuron, the rule requires only one addition and two comparisons for each synaptic weight, making it very suitable for implementation in digital or mixed-signal neuromorphic hardware.

*Frontiers | Event-Driven Random Back-Propagation: Enabling ...*

We are looking for a talented and enthusiastic postdoc who will join our team to develop deep learning methods for low-latency object detection and recognition using novel “event-driven” sensors. The candidates will take an “event-driven” approach to robotics, in which sensor signals are not sampled at a fixed rate, but specialised sensor electronics output only

when there is a significant change.

*PostDoctoral position on Event-driven Deep Learning*

Deep Learning for Event-Driven Stock Prediction Deep Learning for Event-Driven Stock Prediction Xiao Ding y, Yue Zhangz, Ting Liu , Junwen Duany yResearch Center for Social Computing and Information Retrieval Harbin Institute of Technology, China fxding, tliu, jwduang@irhiteducn zSingapore University of Technology and Design yue zhang@sutdedusg ...

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*Event-Driven Random Back-Propagation: Enabling ...*
Scalable, event-driven, deep-learning-friendly backtesting library - Kismuz/btgym

*GitHub - Kismuz/btgym: Scalable, event-driven, deep ...*
Event-Driven Market Prediction with Deep Learning Market prices for stocks, equities, derivatives, or commodities are

highly influenced by economic events. For example, an earnings announcement of a company is known to affect its stock price.

*Event-Driven Market Prediction with Deep Learning*

Deep learning is a series of models that have the ability to extract deep features from input data with deep neural network architecture. Deep learning models usually have more than three layers. The deep network is typically initialized by unsupervised layer-wise training and then tuned by supervised training with labels that can progressively generate more abstract and high-level features layer by layer [ 56 ].

*A deep learning framework for financial time series using ...*
A Deep Learning scheme is derived to predict the temporal trends of stocks and ETFs in NYSE or NASDAQ. Our approach is based on a neural network (NN) that is applied to raw financial data inputs, and is trained to predict the temporal trends of stocks and ETFs.

*Financial Time Series Prediction Using Deep Learning*
The Event-Driven Perception for Robotics (EDPR) Research Line (www.edpr.iit.it) at the iCub facility – Istituto Italiano di Tecnologia (IIT) – is seeking to appoint one postdoctoral fellow in the area of event-driven deep learning for autonomous robots. We are looking for a talented and enthusiastic postdoc who will join our team to develop deep

learning methods for

This research aims to figure out how textual information in the real estate news can be applied to predicting the price dynamics of REIT (real estate investment trust), a publicly traded security in the exchange whose income is backed up by real estate. Due to the information gap in the market and the sentiment-induced irrational trading behaviors, the market often witnesses the departure of REIT price from its fundamental NAV (net asset value). Traditional REIT pricing models fail to incorporate these behavioral factors and the real time market information, leading to a gap in current

empirical studies. With the development of deep learning and natural language processing (NLP) techniques, we are curious about how to properly represent and extract textual information in the real estate news, in a way that allows us to capture the up-to-date market events and irrational sentiment, and incorporate them in REIT pricing. To achieve this goal, I conduct a two-stage analysis. In the first stage, I focus on two NLP tasks, including the sentiment analysis and event extraction. On the end of sentiment analysis, I construct several sentiment measures based on the traditional textual analysis methods. Besides, I train and obtain the sentiment-specific word embeddings on a human-labeled financial news corpus. One the event extraction end, two approaches of event representations are used, which separately

corresponds to an unsupervised and a supervised learning model. First, I represent an event as a structured triplet E = (Object1, Predicate, Object2), and use an unsupervised NTN (neural tensor network) model to obtain the event embeddings. Second, I follow a supervised model to represent the event in the form of E = (trigger, argument1, argument2, ...), and fine-tune a BERT model on the event extraction task. In the second stage, with the help of the sentiment measures, sentiment-specific word embeddings and the pre-trained event embeddings, I implement and compare several deep learning models for REIT price prediction. The best-performing NTN+CNN model greatly outperforms the traditional ARIMA model, in that it decreases the MSE loss by around two thirds, and increases the

classification accuracy of price movement by around 8%. The VAR analysis indicates that positive market sentiment granger-causes the REIT price change between 2011 and 2018, while the negative sentiment has no significant effect on the market.

The software development ecosystem is constantly changing, providing a constant stream of new tools, frameworks, techniques, and paradigms. Over the past few years, incremental developments in core engineering practices for software development have created the foundations for rethinking how architecture changes over time, along with ways to protect important architectural characteristics as it evolves. This practical guide ties those parts together with a

new way to think about architecture and time.

Neuromorphic electronic engineering takes its inspiration from the functioning of nervous systems to build more power efficient electronic sensors and processors. Event-based neuromorphic systems are inspired by the brain's efficient data-driven communication design, which is key to its quick responses and remarkable capabilities. This cross-disciplinary text establishes how circuit building blocks are combined in architectures to construct complete systems. These include vision and auditory sensors as well as neuronal processing and learning circuits that implement models of nervous systems. Techniques for building multi-chip scalable systems are considered throughout the book,

including methods for dealing with transistor mismatch, extensive discussions of communication and interfacing, and making systems that operate in the real world. The book also provides historical context that helps relate the architectures and circuits to each other and that guides readers to the extensive literature. Chapters are written by founding experts and have been extensively edited for overall coherence. This pioneering text is an indispensable resource for practicing neuromorphic electronic engineers, advanced electrical engineering and computer science students and researchers interested in neuromorphic systems. Key features: Summarises the latest design approaches, applications, and future challenges in the field of neuromorphic engineering. Presents examples of practical applications of neuromorphic

design principles. Covers address-event communication, retinas, cochleas, locomotion, learning theory, neurons, synapses, floating gate circuits, hardware and software infrastructure, algorithms, and future challenges.

Grasp the fundamentals of Artificial Intelligence and build your own intelligent systems with ease Key Features Enter the world of AI with the help of solid concepts and real-world use cases Explore AI components to build real-world automated intelligence Become well versed with machine learning and deep learning concepts Book Description Virtual Assistants, such as Alexa and Siri, process our requests, Google's cars have started to read addresses, and Amazon's prices and Netflix's recommended videos are decided by AI.

Artificial Intelligence is one of the most exciting technologies and is becoming increasingly significant in the modern world. Hands-On Artificial Intelligence for Beginners will teach you what Artificial Intelligence is and how to design and build intelligent applications. This book will teach you to harness packages such as TensorFlow in order to create powerful AI systems. You will begin with reviewing the recent changes in AI and learning how artificial neural networks (ANNs) have enabled more intelligent AI. You'll explore feedforward, recurrent, convolutional, and generative neural networks (FFNNs, RNNs, CNNs, and GNNs), as well as reinforcement learning methods. In the concluding chapters, you'll learn how to implement these methods for a variety of tasks, such as generating text for chatbots, and playing board and video

games. By the end of this book, you will be able to understand exactly what you need to consider when optimizing ANNs and how to deploy and maintain AI applications. What you will learn Use TensorFlow packages to create AI systems Build feedforward, convolutional, and recurrent neural networks Implement generative models for text generation Build reinforcement learning algorithms to play games Assemble RNNs, CNNs, and decoders to create an intelligent assistant Utilize RNNs to predict stock market behavior Create and scale training pipelines and deployment architectures for AI systems Who this book is for This book is designed for beginners in AI, aspiring AI developers, as well as machine learning enthusiasts with an interest in leveraging various algorithms to build powerful AI applications.

This two-volume set, LNCS 12565 and 12566, constitutes the refereed proceedings of the 6th International Conference on Machine Learning, Optimization, and Data Science, LOD 2020, held in Siena, Italy, in July 2020. The total of 116 full papers presented in this two-volume post-conference proceedings set was carefully reviewed and selected from 209 submissions. These research articles were written by leading scientists in the fields of machine learning, artificial intelligence, reinforcement learning, computational optimization, and data science presenting a substantial array of ideas, technologies, algorithms, methods, and applications.

The two volumes LNCS 10337 and 10338 constitute the proceedings of the International Work-Conference on the Interplay Between Natural and Artificial Computation, IWINAC 2017, held in Corunna, Spain, in June 2017. The total of 102 full papers was carefully reviewed and selected from 194 submissions during two rounds of reviewing and improvement. The papers are organized in two volumes, one on natural and artificial computation for biomedicine and neuroscience, addressing topics such as theoretical neural computation; models; natural computing in bioinformatics; physiological computing in affective smart environments; emotions; as well as signal processing and machine learning applied to biomedical and neuroscience applications. The

second volume deals with biomedical applications, based on natural and artificial computing and addresses topics such as biomedical applications; mobile brain computer interaction; human robot interaction; deep learning; machine learning applied to big data analysis; computational intelligence in data coding and transmission; and applications.

Deep Learning Models and its application: An overview with the help of R softwarePrefaceDeep learning models are widely used in different fields due to its capability to handle large and complex datasets and produce the desired results with more accuracy at a greater speed. In Deep learning models, features are selected automatically through the iterative process wherein the model learns the features by

going deep into the dataset and selects the features to be modeled. In the traditional models the features of the dataset needs to be specified in advance. The Deep Learning algorithms are derived from Artificial Neural Network concepts and it is a part of broader Machine Learning Models. This book intends to provide an overview of Deep Learning models, its application in the areas of image recognition & classification, sentiment analysis, natural language processing, stock market prediction using R statistical software package, an open source software package. The book also includes an introduction to python software package which is also open source software for the benefit of the users.This books is a second book in series after the author's first book- Machine Learning: An Overview with the

Help of R Software
https://www.amazon.com/dp/B07KQSN447EditorInternational Journal of Statistics and Medical Informaticswww.ijsmi.com/book.php

This is the second book in the Deep Learning models series by the author. Deep learning models are widely used in different fields due to its capability to handle large and complex datasets and produce the desired results with more accuracy at a greater speed. In Deep learning models, features are selected automatically through the iterative process wherein the model learns the features by going deep

into the dataset and selects the features to be modeled. In the traditional models the features of the dataset needs to be specified in advance. The Deep Learning algorithms are derived from Artificial Neural Network concepts and it is a part of broader Machine Learning Models. The book starts with the Introduction part which is adopted from Author's Deep Learning Models and its application: An overview with the help of R software book and move on to the Python's important data processing packages such Numpy, and Pandas. Book then explores the Deep Learning models with the help of packages such as Pytorch, Tensor Flow and Keras and their applications in image processing, stock market prediction, recommender systems and natural language processing. Editor International Journal of Statistics

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