Jay Chakalasiya

MACHINE LEARNING ENTHUSIAST - KAGGLER - GITHUB BLOGGER

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Education

ITNU (Nirma University, Ahemdabad)
B.Tech in Computer Engineering
Graduation Year : 2018 - PPI : 8.43
Notable ITNU Coursework : Data Structures, Operating Systems, Algorithms, Computer Networks

Ahmedabad, Gujarat
July 2014 - PRESENT

ITNU (Nirma University, Ahemdabad)
Specialization in Network Security
Graduation Year : 2018
Notable ITNU Coursework : Ethical Hacking, Encryption, System Interconnection Security

Ahmedabad, Gujarat
July 2015 - PRESENT

ML Patel & DM Patel
HSC - GSEB - 90.52%

Surat, Gujarat
July 2011 - March 2013

Projects

Image Classification using Neural Networks
Python, Tensor-Flow, TFLearn, CV-2
Developed different neural nets to compare Accuracy, and learning rate with various parameters given. Tried to find the relationship between number of layers and training time. Experimented the cifar-10 and c-far-100 dataset on FC Network, RNN Network, LSTM cells and CNN, got maximum accuracy of **89.64%** with 5 layer CNNs.
http://jay-chakalasiya.github.io/projects/Image%20Classification/index.html

April 2017 - July 2017

Catagorization of news clippings
Python, SkLearn, NLTK
Developed an algorithm to give appropriate label to random news clippings. Used many algorithms including Naive Bayes, KNN, K-Means, Neural nets. The pre-processing was done with NLTK library. Got maximum accuracy of **99.6%** with Naive Bayes
http://jay-chakalasiya.github.io/projects/Catagorization%20of%20news%20clippings/index.html

April 2017 - July 2017

Financial Market Forecasting
Python, SkLearn, Pandas
Apart from traditional market indicators, tried to generate non-traditional indicators based on market anomalies like Day of the week and Month of the Year effect to further improve results. Still trying to manipulate form of data such that the task of predicting the signal can be termed as Pattern Recognition from image so that CNN can be apply.
http://jay-chakalasiya.github.io/projects/Financial%20Market%20Forecasting/index.html

August 2015 - PRESENT

Hand Written Character Recognition
Python, TFLearn, Tensor-Flow
Derived an algorithm which can read hand written characters from image data. In experiment we had developed different neural networks and Machine learning algorithms, The dataset used from MNIST and Kaggle, the prediction result was **99.4%** accuracy on Kaggle competition using 4 layer CNN Networks.
http://jay-chakalasiya.github.io/projects/Hand%20Written%20%Character%Recognition/index.html

April 2015 - July 2015

Heart Beat Detection Sensor Module
Arduino - R3, C, Python
Programmed an Arduino boa
rd to detect heart beat using an infrared LED, was an initiative to provide cheap but efficient medical devices.

January 2015 - April 2015

Experiences

Intern for Web Development and Data analysis
At ASK? EHS - Safety Services
Surat, Gujarat
May 2017 - July 2017

First ever experience with back-end website handling, learned how to handle the live website, how to retrieve data and it's analysis. Some specific machine related software trouble-shooting. Gained experience in working with animations for engineering safety, had work with Photoshop and CorelDraw and a bit Maya. An Exposure to new innovative ideas for safety.

Summer Training on Machine Learning
Nirma university
Ahmedabad, Gujarat
May 2017 - July 2017

Got Exposure to real world challenges for machine learning and developed solutions. The Image Classification was the project under this training camp. As well as had to work with bounding boxes for image and Text Summariser.

https://jay-chakalsiya.github.io/future-works/Text%20Summariser/index.html
https://jay-chakalsiya.github.io/future-works/Auto%20Bounding%20Boxes/index.html

Technical Knowledge & Courses

Programming Languages :

Fluency : Python, C++, C | **Proficiency :** R, Javascript, Php | **Fimiliarity :** Matlab, Java

Machine Learning and Deep learning Frameworks Known :

Sklearn | Tensor-Flow | TFLearn | Keras | NLTK | TFLayer | Spark

Software Distributions Known :

Photoshop | CorelDraw | Maya | AutoCAD | Unity3D | GNS

Security Packages Known :

WireShark | Armitage | Burp Suite | WebGoat | Metasploit

Volunteering and Teaching

Member of Anti-Ragging Committee
ITNU, Nirma University
Ahmedabad, Gujarat
January 2016 - PRESENT

Volunteered Woman Empowerment Camp
Organized by IEEE at ITNU, Nirma University
Ahmedabad, Gujarat
January 2016

Took a Workshop on Game Development Using Unity3D
Speaker, Organized by RCNI, ITNU
Ahmedabad, Gujarat
March 2016

Personal Informations

Languages Known :

English | Hindi | Gujarati

Skills :

Entrepreneurship | Creativity | Critical Thinking | Leadership | Project Management | Curiosity

Interests :

Space | Life-Science | Philanthropy | Renewable Energy | Artificial Intelligence | Reverse Engineering

Profiles

Github   https://github.com/jay-chakalasiya
Facebook   https://www.facebook.com/jay.chakalasiya
Linked-In   https://www.linkedin.com/in/jay-chakalasiya-a3371b115/