

Gyanachand Panigrahi

DATA SCIENCE | MACHINE LEARNING | DEEP LEARNING ENTHUSIAST

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Skills

Programming	C, SQL, MATLAB, JavaScript, HTML, CSS
Python	Numpy, Pandas, Matplotlib, Seaborn, Plotly, Cufflinks, BeautifulSoup, Spark, Jupyter, OpenCV
R	caTools, ggplot2, rpart, caret, randomForest, e1071, gbm, dplyr, cluster, arules, mice, Xgboost
ML DL Frameworks	Pytorch, Tensorflow, Keras, ScikitLearn, Numpy, Pandas
Cloud Platforms	Amazon Web Services, Google Cloud Platform
Software Packages	Anaconda, R Studio, Atom, Excel, Gretl, pgAdmin, Tableau, Adobe Photoshop
Operating Systems	Ubuntu, Mac OS, Windows
Languages	Odia (Native), English (Advance), Hindi (Basic)

Certification

THE COMPLETE WEB DEVELOPER COURSE

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-VQQ57SZC/](https://www.udemy.com/certificate/UC-VQQ57SZC/) **30.5 HOURS**

March 2018

- In this course I learned and Implement about latest Web Design and Development technologies such as HTML5, CSS3, JavaScript, jQuery, Bootstrap, PHP coding and working with MySQL Database by Rob Percival.

DATA SCIENCE A-ZTM: REAL-LIFE DATA SCIENCE EXERCISES INCLUDED

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-89NBYIPL/](https://www.udemy.com/certificate/UC-89NBYIPL/) **21 HOURS**

October 2018

- Successfully Perform all steps in a complex Data Science project by Kirill Eremanko, SuperDataScience Team.

DATA SCIENCE AND MACHINE LEARNING BOOTCAMP WITH R

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-CD8DTLK2/](https://www.udemy.com/certificate/UC-CD8DTLK2/) **18 HOURS**

August 2019

- Programming with R, Advanced R Features, Using R Data Frames to solve complex tasks, Using R to handle CSV, Excel, SQL files or web scraping, Using R to manipulate data easily, Using ggplot2 and plotly for interactive Data Visualizations, Using R for Machine Learning Algorithms and Data Science by Jose Portilla.

DEEP LEARNING A-ZTM: HANDS-ON ARTIFICIAL NEURAL NETWORKS

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-1XZSFJI8/](https://www.udemy.com/certificate/UC-1XZSFJI8/) **23.5 HOURS**

September 2018

- Intuition and Practical experienced with Artificial Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Generative Adversarial Networks, Self-Organizing Maps, Boltzmann Machines, AutoEncoders by Super Data Science Team.

MACHINE LEARNING A-ZTM: HANDS-ON PYTHON AND R IN DATA SCIENCE

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-GGNOGARQ/](https://www.udemy.com/certificate/UC-GGNOGARQ/) **41 HOURS**

November 2018

- Supervised Learning, Unsupervised Learning, Reinforcement Learning by Kirill Eremanko, Hadelin de Ponteves, Super Data Science Team.

THE COMPLETE SQL BOOTCAMP

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-5IIC85R4/](https://www.udemy.com/certificate/UC-5IIC85R4/) **8.5 HOURS**

February 2019

- In this course I learned and implement about Using SQL to query a database, Using SQL to perform data analysis by Jose Portilla.

TABLEAU 10 A-Z: HANDS-ON TABLEAU TRAINING FOR DATA SCIENCE!

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-L8RZNNBF/](https://www.udemy.com/certificate/UC-L8RZNNBF/) **7.5 HOURS**

January 2019

- Experienced with Advance Data Visualization using Tableau. Creating a Bar, Area chart, connecting Tableau to CSV file, Navigating Tableau, Calculated Fields, Adding Colors, Labels and Formatting, Data Extracts, creating Bins, customer Segmentation Dashboard, Joining and Blending Data, Fixing Geographical Errors in Tableau. Adding Highlighter, Modeling and Saving Cluster with Tableau by Super Data Science Team.

NLP - NATURAL LANGUAGE PROCESSING WITH PYTHON

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-NKV60J8H/](https://www.udemy.com/certificate/UC-NKV60J8H/) **11.5 HOURS**

May 2019

- Natural Language Procesing Basics, Part of Speech Tagging and Named Entity Recognition, Text Classification, Semantics and Sentiment Analysis, Topic Modeling and Deep Learning for NLP and ChatBots by Jose Portilla.

DEEP LEARNING COMPUTER VISION TM CNN, OPENCV, YOLO, SSD, GANS

Udemy

LINK: [HTTPS://WWW.UDEMY.COM/CERTIFICATE/UC-WPIBW9IH/](https://www.udemy.com/certificate/UC-WPIBW9IH/) **14 HOURS**

April 2019

- Computer Vision Basics, Image Manipulation and Processing, Image Segmenation, Object Detection and Recognition, Face Recognition, Tracking and Motion Analysis, Neural Style Transfer by Rajeev Ratan.

Freelancing & Projects | Linkon.AI

BUILD A FACE DETECTOR WITH EMOTIONS, AGE AND GENDER RECOGNITION

- Automated Face recognition pipeline for Pretrained model: 29-layer Resnet CNN. Significantly reduced model training effort.
- Obtained test accuracy of 96.5 percent. Trained CNN model for 4 categories of human emotions. dataset: 28709 images from FER 2013 and RaFD kaggle, achieved test accuracy = 87 percent for Happy and Sad Classes. [Python, Haarcascade, Data Augmentation, VGG]

BUILD A FRUIT CLASIFIER & MONKEY BREED CLASIFIER

- The Fruit classifier consist of 81 types of fruits & Monkey breed classifier consist of 10 Monkey Species with MobileNet using Transfer learning CNN that will able to identify Fruit, Monkey Breed in a set of Pictures.

CHURN MODELLING USING ARTIFICIAL NEURAL NETWORKS

- Solved a Data Analytics challenge for a bank. Given a Dataset with a large sample of the bank's customers. To make this dataset, the bank gathered information such as customerid, credit score, gender, age, tenure, balance, if the customer is active, has a credit card, etc.
- During a period of 6 months, the bank observed if these customers left or stayed in the bank. By applying your Deep Learning model the bank may significantly reduce customer churn. [Python, TensorFlow, Keras], [Seaborn, Scikit-Learn, K-fold Cross Validation, Numpy, Pandas]

IMAGE SEGMENTATION AND MEDICAL IMAGING

- The objective is to Automate the generation of the image masks, The approach is using U-Net a CNN designed for segmentation tasks to generate these masks that will spot Nuclei and Speed cures. [Python, Keras, CNN]

TIME SERIES FORECASTING ON MUMBAI RAINFALL DATA

- The aim of this project is to compare the performance of different forecasting methods like ARIMA, LSTM and other sequence prediction techniques on Mumbai Rainfall data. [Python] [Numpy, Pandas] [Keras]

HANDS ON AND EXPERIENCED WITH GENERATIVE ADVERSARIAL NETWORKS

- Using Generative Adversarial Networks to colorizing old Black and White images and videos. However this model can be reused by simply changing the Images and Videos in the input folder.
- Also Using Generative Adversarial Networks to Create Fake Hand Writing Digit. faceswap using Generative Adversarial Networks.

NOUN PHRASE EXTRACTOR USING NATURAL LANGUAGE PROCESSING

- RegexParser(chunker), POSTagger of NLTK is used to create to a chunk tree. Rule-based approach was used to create the relevant grammar. Enter the text: Today is a very great day. Indian politicians and the noun phrases are as follows Today, great day, Indian politicians.
- Build a Chatbot involving Natural Language Processing, using seq2seq model. (Cornell Movie-Dialogs).

FEATURE EXTRACTION FROM TEXT USING NATURAL LANGUAGE PROCESSING

- The Datasets contains of SMS Spam Collection, Using Scikit-learns, CountVectorizer and SVM classifier to predict the ham/spam label based on message length and punctuation counts, Where I got an accuracy of 98 Percent.

NAMED ENTITY RECOGNITION (NER) USING NATURAL LANGUAGE PROCESSING

- Named Entity Recognition (NER) with spacy library for example if you enter a text and it will identify, sort and store textual content such as the names and titles of your customers, their exact company names and addresses.
- Find Top 10 Similarity words. (scipy, spatial).

TOPIC MODELING USING NATURAL LANGUAGE PROCESSING

- The Dataset is about Quora Questions (400000 Questions).
- The questions are such as What is the step by step guide to investing, What is the story of Kohinoor, How can I increase speed etc.
- Then using Term-Frequency-Inverse Document Frequency to created a vectorized document term matrix.
- Then after that using Non-negative matrix factorization model to fit the dataset that will Print the Top 15 most common words for each of the 20 Topics. [Python] [ScikitLearn] [TF-IDF, NMF]

Education

College of Engineering and Technology

BACHELOR OF TECHNOLOGY IN INSTRUMENTATION & ELECTRONICS ENGINEERING

Bhubaneswar, India

Aug 2016 - May 2019

Sanjay Memorial Institute of Technology

DIPLOMA IN ELECTRICAL ENGINEERING

Ankushpur, India

Aug 2012 - May 2015

Government High School

MATRICULATION

Malkangiri, India

June 2012