

Nikhil Kumar Jha

MACHINE LEARNING · DEEP LEARNING

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"Imagine, Believe, Achieve"

Skills

Machine Learning	Advance
Deep Learning	Advance
Image Processing	Intermediate
Natural Language Processing	Beginner
Frameworks	TensorFlow, Keras
Languages	Python, C, C++, R
Databases	MySQL, NoSQL
Operating Systems	Windows, Linux

Projects

MusicGen

DEEP LEARNING

- Generate music in ABC format using Character-Wise Recurrent Neural Network
- Basic LSTM cells were used.
- <https://github.com/nj2610/MusicGen>

IC detection from Printed Circuit Board

COMPUTER VISION, IMAGE PROCESSING AND OCR

- Located and Extracted all of the Integrated Circuits (ICs) present in the image of Printed Circuit Board.
- Pass the extracted ICs through Tesseract OCR engine to extract the details mentioned on the ICs.
- https://github.com/nj2610/IC_Recognition.

Sentiment Analysis

DEEP LEARNING AND NLP

- Performed Sentiment Analysis on the Imdb movie review dataset using RNNs.
- Achieved Validation Accuracy: 91% and Test Accuracy: 88%
- https://github.com/nj2610/IC_Recognition.

Extractive Text Summarization

GRAPH ALGORITHMS AND NLP

- Performed Text summarization using the Graph based algorithms.
- Achieved average Cosine similarity score of 75% (Range: 40% - 90%) with the Gold Standard Summary of the BBC News Article dataset.
- Was able to capture all the lines present in the Gold standard summary but have 1-2 lines extra.

Neural Style Transfer

DEEP LEARNING

- Transformed the Content image in the style of any Artistic image using Transfer learning on VGG-19 model.
- Implemented algorithm based on Gatys paper on the topic.
- Also implemented color preservation of the content image so that scenic meaning does not change.

Enigma- ML Competition

MACHINE LEARNING

- Applied XgBoost, SVM and other algorithms on the given dataset.
- Secured overall rank 29 on the private leaderboard.
- https://github.com/nj2610/AnalyticsVidhya_-Enigma

Titanic Survival Prediction

DEEP LEARNING

- Using Deep Neural Networks predicted the survival on the Titanic Dataset.
- https://github.com/nj2610/Kaggle_Titanic

Honors & Awards

2019 **Winner**, Smart India Hackathon (Complicated category)
Created online video directory for Entrepreneurs.

Pune, India

Exams

JEE Mains

ALL INDIA RANK : 26058

2016

Education

Indian Institute of Information Technology, Kalyani

West Bengal, India

B. TECH. IN COMPUTER SCIENCE AND ENGINEERING

CGPA : 9.6

2016 - Present

Modern International School, Dwarka

New Delhi, India

HIGHER SECONDARY

PERCENTAGE : 93.4

2013-2015