

Mrutyunjay Biswal

B.Tech. | NIT Rourkela

Pre-Final Year
Electronics and Instrumentation & Engg.
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Education

2018-PRESENT

B.TECH., EIE
NIT Rourkela
CGPA : 8.29/10

MAY 2017

INTERMEDIATE
Naidu Science College, Bhubaneswar
Percentage: 74.33%

MAY 2015

MATRICULATION
Nakshatra Malini High School, Jajpur
CGPA: 90%

Links

Github:// **Mrutyunjay01**
LinkedIn:// **Mrutyunjay01**

Skills

GENERAL PROGRAMMING

C, C++, Python, R

FRAMEWORKS

Tensorflow, PyTorch, Keras, Shiny, seaborn,
Django, Flask

OPERATING SYSTEMS

Windows, Ubuntu

SOFTWARES

MATLAB, Tableau, PowerBi, CARLA

MISCELLANEOUS

AWS, Docker, GitHub, Apache Spark

LANGUAGES

English, Hindi, Odia

Relevant Courses

- Deep learning Specialisation
- Advanced ML Specialisation
- IBM AI Engineering Professional Certification
- TensorFlow in Practice Specialization
- IoT and Embedded Systems Specialization

Work Experience

Real Time Vehicle detection FrameWork **Student Researcher**

JAN 2020 – PRESENT

- Implemented **ResNet50, DarkNet53, YOLO, YOLACT, FRD-CNN** paper from scratch to observe the outcome and speed on **MS-COCO and Pascal VOC** dataset
- Imposed a hybrid of Single stage and double stage detector on the top of **DCN-Feature extractor**, recorded **89.45mAP** on custom dataset, initialized on pretrained imagenet weight

PYTHON, COMPUTER VISION, TENSORFLOW, KERAS, PYTORCH, FLASK, TKINTER, IMAGE PROCESSING

Handwritten Document Digitization

Summer Intern

APR 2020 – MAY 2020

AtEVA Technology Pvt Ltd

- Made 3-step Deep Neural Net for efficient Extraction and Text analysis, **Paragraph Segmentation, Line Segmentation, word Segmentation**. Used IAM Dataset to serve the purpose.
- Trained an NLP on top of the CV Network to correctly process and impose required correction in word sequence to be stored as a PDF document.

PYTHON, MXNET, GLUON-NLP, GLUONCV, NLTK, GLOVE

Projects

Image Captioning using CNN and RNN

Course Capstone

MAY 2020

Coursera

- Coined a **two stage Neural network dedicated for Image and Language Model** each. Processed COCO dataset images to create an embedding of encoded images and captions.
- Trained a final Model with pretrained weights of these two networks and imposed language generator on top of it. **Adam optimizer** was used to optimize the token logit loss.

PYTHON, TENSORFLOW, KERAS, RNN, CNN. COCO DATASET

Achievements/Certifications

JUL-2020 Janata Hack- Health Care Analytics **61st / 14400**

Predicted the probability of getting a health score based on dataset provided, with intense Data preprocessing achieved roc-auc score 0.8106 in Public LB.

JUN-2020 Deep learning Hackathon **113rd / 3470**

Developed an Image classification Model to classify **8 dance forms on a very small and skewed Dataset**. **f1 score achieved: 0.8981**.

JUL-2020 Janata Hack- Recommendation System **143rd / 14400**

Built a **recommendation system** to recommend next three problem statements to a programmer based on previous solved questions to maximize Revenue

Extracurricular Activities

Founder & Technical Team head

Jul 2020 - Present

- Founded **ML4E** club and Community to enhance research works, promote and evoke students to actively take part in ML competitions and to bridge the gap a undergraduate to industry ready ML practitioner.