

# Soumyajit Rout

Machine Learning | Deep Learning | Data Science | Python

A curious undergraduate who enjoys learning and aims to build solutions that solves real world problems with the power of Artificial Intelligence.

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## EDUCATION

**Veer Surendra Sai University of Technology**

B.TECH IN COMPUTER SCIENCE AND ENGINEERING (CGPA: 7.90)

Burla, Odisha, India 768018

2017-2021

## EXPERIENCE

**KM UnoTag Pvt Ltd**

PROJECT INTERN

Bangalore, India

JUL 2019 - NOV 2019

- Deployment of WhatsApp Business API on Amazon Web Services. Building a reward system that gives user points by uploading a valid image of QR code and a feature to transfer points to other users via chatbot on WhatsApp.

**Center for Development of Advanced Computing (C-DAC)**

UNDERGRADUATE INTERN

Pune University Rd, Pune, India

DEC 2018 - JAN 2019

- Training internship on High Performance Computing, Machine Learning and Deep Learning. Deployed deep learning algorithms and calculated the value of PI using dart board method on PARAM SHAVAK supercomputer.

## PROJECTS

**Face Image Reconstruction using SFSNET and GANs**

- Worked on a model which combines the uses a deconstructor network (normal, albedo and shading) i.e SFSNET and Generative Adversarial Network (GAN) to reconstruct face images in the wild.

**Text Classification on IMDB Movie Reviews**

- From the movie review dataset from IMDB, I have used a Gated Recurrent Layer(GRU) model to train on the dataset and created a interface where the user will provide a text and the model will classify it as positive or negative.

**Image-Image Translation using Generative Adversarial Networks**

- Using Pix2Pix model I have trained a GAN model that takes Satellite Image as input and returns a Map Image as output. And deployed the model on a webapp using Flask.

**Twitter Sentiment Analysis**

- Using Twitter API I have scraped tweets related to a certain topic and preprocessed the data. Then using NLTK I have extracted feature vector from the preprocessed data and trained Naive Bayes Classifier to analyze the tweets.

## TECHNICAL SKILLS

PYTHON

TENSORFLOW

NLP

DATA VISUALIZATION

COMPUTER VISION

FLASK

EDA

WEB SCRAPING

PARALLEL COMPUTING

SHELL SCRIPTING

UBUNTU

CENTOS

FLUTTER

## REFERENCES

Prof. Amiya Kumar Rath

Advisor National Assessment and Accreditation Council (NAAC)

Government of India

Dr. Santosh Kumar Majhi

Veer Surendra Sai University of Technology

Burla, Odisha