

# Sounak Mukherjee

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GitHub: github.com/mSounak

Kaggle: kaggle/redhunter20

## EDUCATION

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### Kalinga Institute of Industrial Technology

B.Tech Computer Science and Engineering, **CGPA: 9.1**

Bhubaneswar

2019–Current

## PROJECTS

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### Targeted-sentiment-analysis

December 2021

Implemented Transformation Net for targeted sentiment analysis

- Built a custom model to get the polarity of the target in the sentence.
- Then created an API for the backend using FastAPI is containerized using docker and deployed on a kubernetes cluster.

### Machine-Translation

November 2021

Trained a Transformer from scratch and used for machine translation

- Encoder-Decoder architecture to produce an input sequence representation with applied positional embedding to increase token position awareness in sentence. Decoder connects it all together and generates required translation.
- It translates English sentences to German have plans to expand its support for Indian language. Created the front-end in streamlit and deployed the application in EC2 instance.

### Food101-Classifer

June 2021

Trained a pre-trained model to classify 101 different food Class based on Food-101 dataset

- Used pre-trained EfficientNetB0 model to trained the model and deploy it on streamlit
- Achieved an accuracy of 79% which beats the accuracy of DeepFood paper's accuracy of 77%

### Stroke-Prediction

February 2021

Trained the model on RandomForestClassifier

- Used SMOTE for imbalance dataset
- Achieved F1-score of 94%

## TECHNICAL SKILLS

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- **Languages:** Python, C/C++, Dart, HTML/CSS
- **Libraries:** Scikit-Learn, Matplotlib, Pandas, Seaborn, Spacy
- **Framework:** TensorFlow, Keras, PyTorch, Flutter
- **Others:** Linux, Git, AWS, Streamlit, Docker, Kubernetes, FastAPI

## COURSEWORK

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- **Academics:** NLP, Machine Learning, DMDW, Data Structures, Operating Systems, Database Management Systems, Web Technology
- **Others:** Coursera Deep Learning Specialization by Andrew Ng., GANs Specialization by DeepLearning.ai

## COMMUNITY WORK

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- Machine learning team member at Google Developers Student Club KIIT  
*Participated in PetFinder.my - Pawpularity Kaggle Contest and were among the top 56%.* November 2021 - present
- AI(mini) Blitz  
*Participated in AI(mini) Blitz. There was 3 challenges out of which I have participated in 2, Food Recognition and ORIENT Rubik cube challenge where I have secured 1st and 2nd position, respectively and was 4th in the overall leader board.* December 2021

Last updated on January 29, 2022