

Sounak Mukherjee

Email: m.sounak2000@gmail.com

LinkedIn: mSounak

Phone no.: +916290480560

GitHub: github.com/mSounak

Kaggle: kaggle/redhunter20

EDUCATION

Kalinga Institute of Industrial Technology
B.Tech Computer Science and Engineering, **CGPA: 9.17**

Bhubaneswar
2019–Current

EXPERIENCE

Pratilipi

Data Science Intern

May 2022 - present
Bangalore

- Written data ingestion scripts for AWS Personalise. And deployed new campaigns, which helped to achieve daily reads of 150k.
- Modified two algorithms for recommender systems and improved total reads by 20%.
- Built a Bi-LSTM model from scratch to predict the gender of a person from their name and achieve a F1-score of 93%.

Bobble.ai

AI Intern

February 2022 - May 2022
Remote

- Wrote pipelines to process terabytes of conversational data.
- Performed *intent recognition* on *hindi macronics* corpus.
- Developed a model to find the sentiment of brands in the conversational texts.
- Trained *FastText* on large datasets to create sentence embedding and word embedding.
- Performed clustering on large conversational data.

PROJECTS

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, 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.

TECHNICAL SKILLS

- **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

- **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