

# Sounak Mukherjee

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## EDUCATION

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### Kalinga Institute of Industrial Technology

B.Tech Computer Science and Engineering, **CGPA: 9.14**

Bhubaneswar

2019–Current

## EXPERIENCE

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### 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%.
- Reduced algorithm run-time by half.

### 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

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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, 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

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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