

Abhipsa Basu

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EDUCATION

IIT KHARAGPUR

MASTER OF TECHNOLOGY
COMPUTER SCIENCE AND
ENGINEERING
CPI:9.57
July 2018

HERITAGE INSTITUTE OF TECHNOLOGY

BACHELOR OF TECHNOLOGY
COMPUTER SCIENCE AND
ENGINEERING
CPI:9.00
June 2016

SOUTH POINT HIGH SCHOOL

Grad. May 2012

LINKS

Github:// [abhlibsabasu](#)
LinkedIn:// [abhlibsabasu](#)
Kaggle:// [abhlibsabasu](#)

COURSEWORK

GRADUATE

Algorithm Design and Analysis
Foundations of Machine Learning
Speech and Natural Language Processing
Deep Learning
Information Retrieval

UNDERGRADUATE

Data Structure and Algorithm
Database Management System
Basics of C Programming

SKILLS

PROGRAMMING

Python • C++ • Java

MACHINE LEARNING

Tensorflow • PyTorch • Scikit-Learn
Keras

RECOGNITION

Was awarded the 2019 IBM Eminence & Excellence **Best Graduate Hire Award**

EXPERIENCE

IBM | COGNITIVE DATA SCIENTIST

Jul 2018 - Present | Bangalore, KA

- Prepared a **question-answering engine** that would take a text as input, accept a question from the user, and output point answers
- Working on a system that identifies the source and target of a **sentiment** by accepting a text as input.
- Working on a system that takes in a health insurance **contract** and a corresponding **excel** file created from the contract manually and compares the content of both programmatically

IIT KHARAGPUR | TEACHING ASSISTANT

Jul 2016 - Jun 2018 | Kharagpur, West Bengal

PROJECTS

SENTIMENT CLASSIFICATION

Sept 2020 - Nov 2020|[Github Link](#)| TEAM SIZE:2

- Trained a **Bi-LSTM model** with **attention**, **CNN** model, and a **BERT** model to classify sentiments on the **Stanford Sentiment Treebank dataset**
- The Bi-LSTM and the CNN model gave comparable results of about **45-47% accuracy** on the test data, the **BERT model** gave an accuracy of about **50%**

GOOGLE QUEST QA LABELING | KAGGLE

Dec 2019 - Feb 2020| [Github Link](#)| TEAM SIZE:2

- Trained a **BERT** model for predicting scores for **30 classes** based on **QA pair**
- Achieved a rank of **72 out of 1571 teams** with a **Spearman's Correlation Coefficient** score of **0.39884**

INSULT CLASSIFICATION | IBM HACKATHON

Aug 2019| [Github Link](#)| TEAM SIZE:2

- Both **post and pre-padded sequences** were used with **attention** in a **Bi-LSTM network** for predicting insult in text
- Achieved a rank of **2 out of 10 teams** with a score of **36976** on the metric provided by hackathon organizers

CONCEPT ANNOTATION OF ACADEMIC CITATIONS | IIT

KHARAGPUR

July 2017 - May 2018

- Used **citations** to investigate how scientific **concepts** originate in one paper, flow into another and get merged with other concepts to give rise to new ones.
- Hypothesized **four categories of concept origin** and worked on a **probabilistic generative model** for **concept origin** in papers covering these four categories

SCHOLASTIC ACHIEVEMENTS

2018 4th/50 Computer Science & Engineering (IIT Kharagpur)
2016 153rd/1.08L Graduate Aptitude Test in Engineering (CS)

PUBLICATION

Jasabanta Patro, Bidisha Samanta, Saurabh Singh, **Abhipsa Basu**, Prithwish Mukherjee, Monojit Choudhury and Animesh Mukherjee, "**All that is English may be Hindi: Enhancing language identification through automatic ranking of the likeliness of word borrowing in social media**", EMNLP 2017