

EXPERIENCE
Student Software Developer, Google Summer of Code — May-September, 2017 Developed a natural language processing toolkit in Python for dealing with Indian languages under the mentorship of Portland State University. Over the course of summer I worked with Hindi, keeping Bengali as a future deliverable. Worked on developing basic NLP functionalities like a tokenizer, a gender tagger, a lemmatizer and a POS tagger. Used the Hindi Dependency Treebank for the tagset, and the Wikimedia dumps for creating a sizeable vocabulary. Packages Used: Gensim for word vector training, sklearn for a Multi Perceptron Classifier for tagging gender, and Keras with a Tensorflow backend for a POS tagger based on LSTM Neural Network.
Machine Learning Engineer, Aware — November - Present Internship based on using High Performance Computing Machines to perform classification on captured heart data in an attempt to detect abnormal heart sound, heart valvular disease, and even predict possible signs of congestive heart failures. Awaire is a startup based in San Jose, CA. For more details refer to https://www.awaire.xyz/
Silver, Technology General Championships — 2016-17 Competitive Strength Predictions of ATM Vendors in California Part of a 15 member team to analyse the competitive strength of three major ATM vendors from the demographic data of California. Scraped data from http://www.unitedstateszipcodes.org/ for demographic data based on PIN codes Visualised feature important with Tableau and clustered ATM locations based on K-Means approach Combined per county demographic model with per state demographic model to generate final revenue generation of ATM Location.

Open Source Contributions Contributed to the documentation, corpus and created scrapers for Classical Language Toolkit . Based on my experiences with the CLTK codebase my proposal was successfully accepted into GSoC 2017. Other organisations I contributed to include NLTK (corpus correction). I am also familiar with the code base of Pattern which is also a Natural Language Toolkit. Part of the Open Source Help Group for guiding beginners into the world of Open Source. Created a package that retrieves from GBIF 5000 geo-referenced records of Australian Mammals and then sends them all to Geospatial Quality API . This was part of series of tests for ropensci under the R Project for GSoC 2017.

POSITIONS OF RESPONSIBILITY
Technology Coordinator, Technology Student’s Gymkhana — 2017-Present Entrusted with the responsibility of handling the web interfaces under the TSG. Currently engaged in creating a better website for the Gymkhana.
Organizing Team Head, ACM-ICPC 2017 Asia Kharagpur Regional, September, 2017 – Present Responsible for coordinating and managing all the facets, namely accommodation, reception and events part and ensuring a smooth workflow for the regionals of ACM ICPC, the largest competitive programming contest in the world. Managing and conducting the First Round Online Programming Contest in association with CodeChef.
Captain, Data Analytics Team, Lal Bahadur Shastri Hall of Residence — 2017-Present As the captain of the team I have to train a team of approximately 15 sophomores for participating in the Open IIT and General Championship Data Analytics events respectively. I am responsible for guiding and teaching them programming and the nuances of data analytics. As the captain I am also entrusted with the responsibility of leading the team from the front while participating in the aforementioned Data Analytics competitions.
Mentor, Kharagpur Winter of Code, December 2017 KWoC is an open source programme organised by the Kharagpur Open Source Society along the lines of GSoC . The aim of the program is not only to provide students with much needed exposure into the world of open source coding but also to prepare them for GSoC .
Mentor, Student Welfare Programme, 2017 I have been allotted seven first-year students as my mentees, as a part of this programme after a rigorous selection procedure. My role as a mentor is to guide these students through their first two academic years on campus and help them with their problems.

EDUCATION			
BTech, Civil Engineering	IIT Kharagpur	7.44/10	2019
Class XII - AISSCE	Central Board of Secondary Education	88.00	2014
Class X - AISSCE	Central Board of Secondary Education	10/10	2012

SKILLS	
Areas of Interest	Machine Learning, Data Analysis, Natural Language Processing and Recommender Systems
Languages	Python, R, C/C++
Operating Systems	Linux/Unix, Windows

EXTRACURRICULAR	
Writing	I am active writer on Quora with more than 1.8 million views and 50 thousand upvotes on my content.
Basketball	I have been the captain of my school Basketball team. I have also been a part of the National Sports Organisation for Basketball till my second year in college.