

EDUCATION

2015-2020	Int. MSc in Mathematics and Computing Indian Institute of Technology, Kharagpur	CGPA : 8.33
2015	Intermediate in CBSE, Central Academy, Kota	96.2 %
2013	Matriculation in ICSE, Saint Francis School, Deoghar	97.2 %

TECHNICAL SKILLS

PROGRAMMING LIBRARIES / FRAMEWORKS	Proficient in Python, C, C++ and Java ; competent in Javascript, Lua and Android. ML/NN: scikit-learn, Tensorflow, Torch, OpenCV Others: numpy, scipy, pandas, matplotlib, django, flask
SYSTEMS / PLATFORMS MARKUP / TEMPLATING	Git, Linux HTML, CSS, LaTeX

ACADEMIC PROJECTS

FEB - APR 2017	GPA Predictor using Machine Learning models and neural networks - Created an institute-level GPA predictor for a student, which would take his previous GPA's as input, and predict his GPA's in the upcoming semesters - Uses last 10 years of grades for over 50 students in each department as training data, so as to identify the difficulty level of each semester.	Under Prof. S. K. Barai
AUG 2017 Ongoing	Utilising Social Media for Disaster relief managment - Treating people as social sensors and utlizing their social intelligence at a disaster site, by extracting the tweets and facebook posts made, in relation to a particular disaster. - Create a post disaster management system, that would show the need and avalaibility tweets on a map based interface, so as to easily connect NGOs, volunteers and the victims to appropriate places, in real time. - Use NLP algorithms to extract only the related tweets and then apply a deep learning model to classify between the 'need' tweets and the 'availability' tweets.	Under Prof. Saptarshi Saha
AUG 2017 Ongoing	Sanskrit text segmentation using NLP and neural networks - Currently using seq2seq model approach for word segmentation and machine translation. - Will use more complex NLP algorithms and deep learning approach to achieve the task.	Under Prof. Pawan Goyal

EXPERIENCE

MAY 2017	Machine Learning Intern - Worked on integrating automatic detection of graphite flakes in MaterialPlus and WeldCheck. - Was solely responsible for building a Convolutional Neural Networks model, to identify between 5 different types of graphite flakes present in grey cast iron. - Used both Tensorflow and Torch as independent platforms to implement the neural network problem.	Dewinter Opticals, New Delhi
MAY - AUG 2017	Developer at Google Summer of Code - Wrote a full-fledged high-level JSOC Client, using drms package as its backend, to download astronomical data from JSOC servers. - Wrote a full test-suite to cover the drms package, using pytest and different mock testing packages.	SunPy under OpenAstronomy
JAN 2017 Ongoing	Software Developer Head - Conducted Kharagpur Winter of Code (KWOC), to promote open-source development in and around campus, which brought over 900+ registrations, across more than 25 colleges. - Worked as a full stack developer in building the website of KWOC, using Flask as backend, and Jekyll as the frontend. - Mentored over 50 students, in projects varying in Python and Android.	Kharagpur Open Source Society

COURSEWORK

(T)HEORY AND (L)ABORATORY

- Programming and Data Structures (T/L)	- Soft Computing Tools in Engineering
- Discrete Mathematics	- Object Oriented Software Design* (T/L)
- Design and Analysis of Algorithms (T/L)	- Linear Algebra*
- Probability and Statistics	- Computer Organisation and Architecture*

* Currently Studying

PERSONAL PROJECTS

DEC 2016	Scarner's Dice - Made a basic android 2-player game that works on random dice throwing. The code can be found here	Android
APR 2016	Birthday Bot - Built a automatic bot, that likes and comments on all your birthday wishes. - Uses selenium to automate the browser to acheive the task. The code can be found here	Python