Samriddhi Sinha

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EDUCATION

IIT KHARAGPUR
BTech in Civil Engineering
Expected May 2019
Cum. GPA: 7.31 / 10.0

DPS RUBY PARK
Grad. May 2014 | Kolkata, India

LINKS

Website:// Samriddhi Sinha
Github:// djokester
LinkedIn:// samriddhisinha
Quora:// Samriddhi Sinha

SKILLS

PROGRAMMING
Python • R • Matlab
C • C++ • CSS • JavaScript •
Packages:
scikit-learn • scipy • numpy •
matplotlib • pandas • keras •
tensorflow • CNTK • NLTK •
Pattern
Operating Systems:
Linux • Windows • Unix (OS X)

EXPERIENCE

GOOGLE SUMMER OF CODE | Student Software Developer
May-September, 2017
- Developed a natural language processing toolkit in Python for dealing with Indian languages under the mentorship of Portland State University.
- Worked with Hindi, the third most spoken language in the world keeping Bengali (another Indian language) as a future deliverable.
- Engineered models for basic NLP functionalities like tokenization, a gender tagging, a lemmatization and POS tagging. Used the Hindi Dependency Treebank for the tagset, and the Wikimedia dumps for creating a sizeable vocabulary.

AWAIRE | Machine Learning Engineer
Dec 2017 – Jan 2018
- 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.

SILVER, TECHNOLOGY GENERAL CHAMPIONSHIPS — 2016-17 | Competitive Strength
Predictions of ATM Vendors in California
Jan 2017 | IIT Kharagpur
- 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 importance 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 scarpers for Classical Language Toolkit. I have also contributed to NLTK.
- 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 STUDENT'S GYMKHANA | Technology Coordinator
July, 2017 – Present | IIT Kharagpur
Entrusted with the responsibility of handling the web interfaces under the TSG. Currently engaged in creating a website for the Gymkhana which handles the extra-academic activities of an institute of more than 10,000 students.

ACM-ICPC 2017 ASIA KHARAGPUR REGIONAL | Organizing Team Head
September, 2017 - December, 2017 | IIT Kharagpur
Responsible for coordinating and managing all the logistics and ensuring a smooth workflow for the regionals of ACM ICPC, the largest competitive programming contest in the world.

LAL BAHADUR SHASTRI HALL OF RESIDENCE | Captain, Data Analytics
July, 2017-Present | IIT Kharagpur
Trained a team of 25 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.

KHARAGPUR WINTER OF CODE 2017 | Mentor
December 2017 | IIT Kharagpur
KWoC is a programme along the lines of GSoC aimed at providing students with exposure into the world of open source and prepare them for GSoC.

STUDENT WELFARE PROGRAMME | Mentor
2017-2019 | IIT Kharagpur
- Allotted seven first-year students as my mentees, as a part of this program. 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.