Gaurav Dhingra

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
Master of Science, Bachelor of Science in Applied Mathematics
2013 - 2018 (expected)
GPA: 7.188/10

OPEN SOURCE

• SymPy • mpmath • LibreOffice

LINK

Github:// **gxyd**
Web:// **gxyd.github.io**
Twitter:// **@axyd0000**

COURSEWORK

Design & Analysis of Algorithms
Graph Theory
Data Structures
Introduction to Linux *
Statistical Inference
Linear Algebra
Discrete Mathematics
Copyright *
(* are MOOCs)

SKILLS

PROGRAMMING

Proficient:
• Python
Competent:
• C • C++ • BASH
Familiar:
• JavaScript • MySQL • CSS

OPERATING SYSTEM

• GNU/Linux • Windows

TOOLS & FRAMEWORK

•Vim • Git • Bootstrap

TALKS

• Lightning Talk "Why Python is good for mathematical computation", PyDelhi 2016

EXPERIENCE

SYMPY | Pull Request Manager

September 2017 - Present

- SymPy is a popular python library for symbolic computation with more than 4000 stars on github.
- Responsible to ensure that SymPy pull requests get reviewed quickly and help in SymPy release process.
- A position funded by NumFOCUS.
- Chosen for the position since of being one of the top contributors to SymPy.

GOOGLE SUMMER OF CODE 2017 | SymPy

May - July, 2017

- Worked on extending the computations using the Risch integration algorithm.
- Implemented algorithm for parametric logarithmic derivative problem.
- Trigonometric functions can now be integrated using the Risch algorithm.

GOOGLE SUMMER OF CODE 2016 | SymPy

April - Aug, 2016

- Created capability to do computation with Finite Groups and Finitely Presented Groups.
- Implemented coset enumeration algorithm for finitely presented groups.
- Reidemeister Schreier, low index subgroup algorithm for doing computation with subgroups and order of groups.

PROJECTS

SERIES CONVERGENCE, SINGULARITY AND ACCUMULATION BOUNDS IN SYMPY | Academic Project

January - April, 2016

Academic Project on implementation of sum and product convergence of series in SymPy, a computer algebra system. Also implemented the Accumulation Bounds for assistance in computation of limits in SymPy.

FINDING THE LEVEL OF AWARENESS AND ACCEPTANCE OF AYURVEDIC PRODUCTS | Marketing Research

July - November 2015

- Conducted a study with reference to the disruption caused by Patanjali Products in FMCG Markets.
- Tested multiple hypothesis based on analysis of the sample collected.
- Compared the degree to which the respondents perceived ease of use and usefulness of online marketing with demographical questions.
- Relationships among different factors were obtained using chi-square test.
- Concluded that most people would find online marketing of ayurvedic products useful.