Gaurav Dhingra

https://gxyd.github.io
gauravdhingra.gxyd@gmail.com | +91 8791414504

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

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 at PyDelhi 2016

EXPERIENCE

SYMPY | PULL REQUEST MANAGER
September 2017 - Present

GOOGLE SUMMER OF CODE 2017 | SYMPY
May 4 - July 22, 2017
- SymPy is a popular python library for symbolic computation with more than 4000 stars on github.
- 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 22 - Aug 23, 2016

- Worked on computational group theory.
- Created capability to do computation with Finite Groups and Finitely Presented Groups.
- Representing Finitely Presented Groups, free groups, semi group, free semigroup, and other group related algebraic structures.
- Respective algorithms for the computation of Normailizers, Centeralizer, Center, Order, Subgroups, Orbit etc.

PROJECTS

SERIES CONVERGENCE, SINGULARITY AND ACCUMULATION BOUNDS IN SYMPY | ACADEMIC PROJECT
May 30 - Aug 21, 2017
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.