# Gaurav Dhingra

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## EDUCATION

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**
Master of Science, Bachelor of Science in Applied Mathematics
2013 - 2018
GPA: 7.380/10

## OPEN SOURCE

• SymPy • Flux • scikit-learn • mpmath • LibreOffice

## LINK

Github:// gxyd
Web:// gxyd.github.io

## 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:
• Julia • BASH
Familiar:
• JavaScript • MongoDB
**OPERATING SYSTEM**
• GNU/Linux • Windows
**TOOLS & FRAMEWORK**
•Vim • Git

## TALKS

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

## EXPERIENCE

**DIGITAL ARISTOTLE** | Junior Research Engineer
Bangalore, India | June 2018 - Present

- Working on automatic mathematics question generation

**SYMPY** | Pull Request Manager
September and December 2017, February 2018

- 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.

## ML OPEN SOURCE CONTRIBUTIONS

**JULIA ECOSYSTEM FOR MACHINE LEARNING** | Open Source
since September, 2020

Contributing to few open source machine learning and differentiable programming libraries written in Julia. For ex. **Flux** , **Zygote** and **ChainRules**