RISHABH BHUTRA

https://github.com/RishabhB99

Fourth Year Undergraduate
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ACADEMIC DETAILS

Degree	Institute	Year	CPI/%
B.Tech.(CSE)	Indian Institute of Technology, Kanpur	2017-Present	8.6/10
Class XII	Central Academy, Kota	2017	94%
Class X	Mayoor School, Ajmer	2015	10/10

SCHOLASTIC ACHIEVMENTS

- **AIR 123** in **JEE Advanced 2017** among 0.2 million candidates.
- **AIR 293** in **JEE Mains 2017** among 1.1 million candidates.
- **Academic Achievement** award for academic year **2017-18**.
- **Academic Achievement** award for academic year **2018-19.**

TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, Haskell, R, Verilog, HTML/CSS
- **Database:** MySQL
- **Tools:** Linux, Latex

WORK EXPERIENCE

Software Developer Intern

Sprinklr *(May'20-Jun'20)*

- Implemented a robust cross-platform language detection framework for various social media texts.
- Preprocessed texts by cleaning URLs, HTML tags, hashtags, @mentions, emoticons etc.
- Classified social media channels into language dominant and multi-language channels and built a custom detector prioritizing dominant language if the channel demands.
- Used various open source detectors like CLD3, Fasttext, LangId and LangDetect and their confidence metrics for building the custom detector.
- Improved performance for large data using caching. Achieved a hit rate of about 50%.

PROJECTS

Java Parser https://github.com/RishabhB99/Java-Parser

Course Project, CS335, Prof. Swarnendu Biswas *(Jan'20-Mar'20)*

- Implemented a parser for JAVA which gave an abstract syntax tree (AST) as an output.
- Built a lexer for various tokens like Keywords, Identifiers, Operators etc. using lexer generator Lex.
- Designed a parser for the JAVA grammer using parser generator yacc.
- Integrated the lexer to the parser in which the parser drives the lexer and the lexer returns tokens to the parser which outputs an AST.

Implementation of Minisat https://github.com/RishabhB99/CS202

Course Project, CS202, Prof. Subhajit Roy *(Oct'18-Nov'18)*

- Explored open source software minisat for solving mathematical logic problems.
- Implemented minisat for solving a given sudoku.
- Built a SAT solver from scratch.

RELEVANT COURSES

A*: Grade for exceptional performance

Data Structure and Algorithms	Computer Organizations	Linear Algebra and ODE
Discrete Mathematics	Probability Theory	Introduction to Economics(A*)
Compiler Design	Operating Systems	Introduction to Machine Learning

EXTRA CURRICULAR

- Participated in inter hall cultural event **Galaxy** in 2019.
- Participated in fresher's night in music in 2017.
- Part of **National Cadet Corps** from 2017-18.