

Akash Gupta

STUDENT · COMPUTER SCIENCE AND ENGINEERING

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Education

Indian Institute of Technology, Roorkee

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING **CGPA - 8.907/10**

- Chair of ACM Student Chapter IIT Roorkee

Roorkee, India

Jul. 2015 - Exp. Jul. 2019

Skills

Programming	Python, C/C++, JAVA, Haskell, VHDL, Verilog
Software/Packages	Django, Linux, Numpy, Matplotlib, Sk-learn, Tensorflow, ArgoUML, Xilinx
Utilities	Sublime-Text, Git, Android Studio, CodeBlocks

Experience

Goldman Sachs

SUMMER ANALYST

- Built and deployed an automatic weekly report generation tool which heavily reduced the manual work of compiling internal weekly report. Used various object-oriented, functional programming & software engineering techniques to implement the code.
- Enhanced the existing risk detection tool for obtaining highly accurate results and making the detection algorithm efficient and scalable. Worked with heavy financial databases for extracting data and automated the process for consistency checks in databases by using linux process-monitor jobs.
- Each of the project required sound knowledge of banking and finance as well as core concepts of computer science

Bengaluru, India

May 2018 - Jul. 2018

Undergraduate Research, Machine Learning(Prof. Biplab Banerjee)

RESEARCHER

- Researched for developing an efficient algorithm to identify the number of clusters in a dataset and then cluster the data after extracting features using CNN. [Github Link](#)
- Technologies Used: Python, Scikit-learn, Pandas, Tensorflow, matplotlib, NumPy.

IIT Roorkee, India

May 2017 - Jul. 2017

Projects

Fast Seeding for K-Means

MACHINE LEARNING

- Wrote a critical review for research paper(Fast seeding for K-Means by Olivier Bachem) for the course project in Machine-Learning course. [Github Link](#)
- Verified the results on various data-sets by using the algorithm described in paper.

IIT Roorkee, India

Mar. 2018

MockQuora

DBMS | WEB-DEV

- Implemented personalized version of *Quora.com* for the course project to learn basics of database-management systems (DBMS). [Github Link](#)
- Used Django for implementing the back-end of the website.

IIT Roorkee, India

Sep. 2017 - Oct. 2017

CA\$H - A mini Linux shell

LINUX | C-LANGUAGE

- Implemented a mini Linux shell having features of running the basic operations like piping, I/O redirection and storing the history of the commands. which can be integrated with any Linux Distribution.
- The implemented shell can be integrated into any Linux distribution.

IIT Roorkee, India

Mar. 2017 - Apr. 2017

Extracurricular Activity

ACM(Association for Computing Machinery) Student Chapter, IIT Roorkee

CHAIR

- Core member since Jan. 2017.
- Mentored several projects on machine-learning and web-development.
- Hosted several hackathons and learning sessions on various trending topics.

IIT Roorkee, India

May 2018 - PRESENT