

# Ritwik Sharma

Computer Science Undergraduate

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## Honors & Awards

- Jexia - Wall Of Contributors
- Awarded Grade O (Exceptional Achievement) in Minor 1, Minor 2 and Major 1 projects at SoCS, UPES
- Earned Reward points at Red Hat for good and quick work
- Best minor project award out of 200 projects at ProjectExpo 2017
- Secured 1st rank among various coders in coding event "DART AND DASH" during Digital India Week
- Secured 5th rank in a coding event "MINDSWEEPER" organized at IIT roorkee during Cognizance 2017

## Extracurricular Activity

- Core Committee member of Computer Society Of India (CSI)
- Event organizer at Yugmak ( a national event organized by CSI)
- HackerRank username: [ritwik\\_1204](#)

## Skills

Programming: C, C++, Java, Python  
Machine Learning: Tensorflow  
Web: PHP, HTML, CSS, XML  
Others: Linux, Git, Android,  $\text{\LaTeX}$ , Elasticsearch, Logstash, Kibana, Filebeat, Ansible, SQL

## Education

2015-2019 University Of Petroleum and Energy Studies (UPES)  
B.Tech. Computer Science & Engineering  
Specialization in Open Source & Open Standards  
Dehradun

## Experience

May -Aug, 18 Red Hat, R&D  
Software Engineering Intern  
Bangalore

- Worked on [Red Hat Satellite](#), Developed Satellite Log Data Analysis tool for log data indexed in ElasticSearch.
- Developed code and optimized its performance from more than 2.5 hrs run time to just 3 seconds.
- Worked on [Red Hat Insights](#), wrote rules for Satellite.
- Worked on Berkeley Packet Filter.

May -July, 17 Hackr.io  
Web development Summer Intern at [Hackr.io](#)

## Projects

2018 Celestial bodies detection using Machine Learning  
Detect type of galaxies, planets, comets, stars, etc. Major 1

2018 [Personal Digital Assistant for Android](#)  
Intelligent assistant that enables users to speak natural language voice commands in order to operate the mobile device and its apps  
Minor 2

- Call or text (WhatsApp too) any number, search anything on Google, play video on YouTube, open apps, start/stop timer, etc.

2017 [Virtual Assistant](#)  
A linux based Virtual assistant on Artificial Intelligence in C  
Minor 1

- Developed Simplified version of "Multinomial Naive Bayes" algorithm for text recognition.
- Find restaurants in an area using Google Geocoding and Places APIs, fetch weather information of any place, play multimedia files such as audio and video songs, Search anything on Google or YouTube.

## Publication

Linux based Virtual Assistant in C  
Journal - IEEE Transactions on Computers  
under review

## Open Source

Google  
Contributed at [Google pytype](#) and other repositories of [Google](#) GitHub

aimacode  
Code for the book "Artificial Intelligence: A Modern Approach" GitHub

- Implemented some well reputed algorithms of A.I.

Earned Social Impact Contributor badge at [Community Forum](#) GitHub

Successfully accomplished Hacktoberfest  
GitHub

[Github Developer Program Member](#)  
GitHub

Member of [OpenGenus](#), Based in Japan  
GitHub

Collaborator and maintainer at [Up For Grabs](#)  
GitHub