

# RitwikSharma

Computer Science Undergraduate

☎ (+91) 8126445890 | ✉ ritwik.1204@gmail.com | 🌐 ritwik12 | 🏠 ritwiksharma | in ritwik-sharma

## Education

2015 - 2019

**University Of Petroleum and Energy Studies (UPES)**

**B.Tech.** Computer Science & Engineering

*Specialization in Open Source & Open Standards*

Dehradun

## Experience

May 2018 to August 2018

**Red Hat, Performance and Scale R&D Team**

Bangalore

Software Engineering Intern

- 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 Performance.
- Worked on Berkeley Packet Filter.

May 2017 to July 2017

**Hackr.io**

Web development Summer Intern at Hackr.io

## Projects

2018

**Celestial bodies detection using Machine Learning**

Major 1

Detect type of galaxies, planets, comets, stars, etc.

2018

**Personal Digital Assistant for Android** [link to project](#)

Minor 2

Intelligent assistant that enables users to speak natural language voice commands in order to operate the mobile device and its apps

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

2017

**Virtual Assistant**

[link to project](#)

Minor 1

A linux based Virtual assistant on Artificial Intelligence in C

- 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.

2017

**Sport Classifier** <https://github.com/ritwik12/Sport-classifier>

Self Project

It is an Implementation of Pattern classification.

- Just give some hint about a sport and it will try to guess the sport about which you are talking.

## Publications

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

under review

## Open Source

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**aimacode** Github  
Code for the book "Artificial Intelligence: A Modern Approach".  
• Implemented some well reputed algorithms of A.I.

**Github Developer Program Member** Github

**OpenGenus** <https://github.com/OpenGenus> Github  
Member of OpenGenus, an open source organization, Based in Japan.

**Up For Grabs** <http://up-for-grabs.net> Github  
Collaborator and maintainer at up-for-grabs.net.

## Skills

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<b>Programming</b>	C, C++, Java, Python
<b>Machine Learning</b>	Tensorflow, Scipy, Numpy
<b>Web</b>	PHP, JavaScript, HTML, CSS, XML
<b>Others</b>	ElasticSearch, Kibana, Logstash, Filebeat, Ansible, Linux, Git, $\text{\LaTeX}$ , Android, SQL

## Honors & Awards

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2018	<b>Jexia - Wall Of Contributors</b> <a href="https://jexia.com/wall-of-contributors">https://jexia.com/wall-of-contributors</a> <span style="float: right;">Jexia</span>
2018	<b>Earned Reward points at Red Hat for good and quick work.</b> <span style="float: right;">Red Hat</span>
December 2017	<b>Best minor project award</b> <span style="float: right;">UPES</span> University rank 1 for minor projects out of 200 projects
March 2017	<b>DART AND DASH</b> <span style="float: right;">Digital India Week</span> Secured 1st rank with cash prize among various coders in coding event "DART AND DASH" held at University Of Petroleum And Energy Studies.
March 2017	<b>MINDSWEEPER</b> <span style="float: right;">IIT Roorkee</span> Secured 5th rank in a coding event "MINDSWEEPER" on "Hackerrank" organized at IIT roorkee during Cognizance 2017.

## Extracurricular Activity

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2015	<b>Yugmak</b> <span style="float: right;">Computer Society Of India</span> Event organizer at Yugmak (a national event organized by CSI).
2015 - 2016	<b>Computer Society Of India</b> Core Committee member of Computer Society Of India (CSI)