

RitwikSharma

Computer Science Undergraduate

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Education

2015 - 2019

University Of Petroleum and Energy Studies (UPES)

B.Tech. Computer Science & Engineering

Specialization in Open Source & Open Standards

Dehradun

Projects

2018

Personal Digital Assistant for Android

[link to project](#)

Ongoing

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

<https://github.com/ritwik12/Virtual-Assistant>

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.
- Developed algorithms for Google and YouTube Search.

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.
- The pattern classification is somewhat like Naive Bayes Classifier.

2017

Prototype For Hackr.io

Internship Project

<https://ritwik12.github.io/Prototype-For-Hackr.io>

- Designed Front-end prototype for Hackr.io website
- Technology used: HTML, CSS, JavaScript, Bootstrap

Publications

Linux based Virtual Assistant in C

under review

IEEE Transactions on Computers

Experience

May 2017 to July 2017

Hackr.io

<https://hackr.io/>

Web development Summer Intern at Hackr.io

Open Source

aimacode	<i>Github</i>
Code for the book "Artificial Intelligence: A Modern Approach". <ul style="list-style-type: none">Implemented some well reputed algorithms of A.I.	
Github Developer Program Member	<i>Github</i>
OpenGenus	<i>https://github.com/OpenGenus Github</i>
Member of OpenGenus, an open source organization, Based in Japan.	
Up For Grabs	<i>http://up-for-grabs.net Github</i>
Up for grabs website hosts projects which have curated tasks specifically for new contributors. <ul style="list-style-type: none">Collaborator and maintainer at up-for-grabs.net.	

Skills

Programming	<i>Proficient: C, C++, Java Prior Experience: C#, Python</i>
Web	<i>PHP, JavaScript, Bootstrap, HTML, CSS, XML</i>
Others	<i>Linux, Git, \LaTeX, OpenGL, .Net Technologies, Android</i>

Honors & Awards

December 2017	Best minor project award	<i>UPES</i>
University rank 1 for minor projects out of 200 projects		
2013	International rank 274 , National Science Olympiad (NSO) organized by SOF.	
March 2017	DART AND DASH	<i>Digital India Week</i>
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	MINDSWEEPER	<i>IIT Roorkee</i>
Secured 5th rank in a coding event "MINDSWEEPER" on "Hackerrank" organized at IIT roorkee during Cognizance 2017.		

Extracurricular Activity

2015	Yugmak	<i>Computer Society Of India</i>
Event organizer at Yugmak (a national event organized by CSI).		
2017	Cognizance	<i>IIT Roorkee</i>
Campus Ambassador at UPES Dehradun for Cognizance IIT roorkee (Techfest) 2017 under Student Partnership Programme.		
2015 - 2016	Computer Society Of India	
Core Committee member of Computer Society Of India (CSI)		

Miscellaneous

- Contribute to open source, **Github** - <https://github.com/ritwik12>
- Competitive coding at Hackerrank, **ritwik_1204**.