RitwikSharma

Computer Science Undergraduate

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Education

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

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

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

Open Source

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

Programming	C, C++, Java, Python
Machine Learning	Tensorflow, Scipy, Numpy
Web	PHP, JavaScript, HTML, CSS, XML
Others	ElasticSearch, Kibana, Logstash, Filebeat, Ansible, Linux, Git, LaTeX, Android, SQL

Honors & Awards

2018	**Participated in Hacktoberfest and earned a limited edition T-shirt**	GitHub
2018	**Jexia - Wall Of Contributors** *https://jexia.com/wall-of-contributors*	Jexia
2018	**Earned Reward points at Red Hat for good and quick work.**	Red Hat
December 2017	**Best minor project award**	UPES
	University rank 1 for minor projects out of 200 projects	
March 2017	**DART AND DASH**	Digital India Week
	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**	IIT Roorkee
	Secured 5th rank in a coding event "MINDSWEEPER" on "Hackerrank" organized at IIT roorkee during Cognizance 2017.	

Extracurricular Activity

2015	**Yugmak**	Computer Society Of India
	Event organizer at Yugmak (a national event organized by CSI).	
2015 - 2016	**Computer Society Of India**	
	Core Committee member of Computer Society Of India (CSI)	