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

Experience

May 2018 to August 2018	**Red Hat, Performance and Scale R&D Team** Software Engineering Intern	Bangalore

- Worked on **Satellite**, a systems-management product by the company Red Hat which allows system administrators to deploy and manage Red Hat Enterprise Linux (RHEL) hosts.
- Developed Satellite Log Data Analysis tool using Machine Learning and Data extraction from ElasticSearch. Used Filebeat and Logstash for indexing data into ElasticSearch.
- Developed code and optimized its performance from more than 2.5 hrs run time to just 4 seconds.
- Worked on **Red Hat Insights**, wrote rules for Satellite.

May 2017 to July 2017	**Hackr.io** Web development Summer Intern at Hackr.io

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** 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.
- 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.

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
Up for grabs website hosts projects which have curated tasks specifically for
new contributors.
  • Collaborator and maintainer at up-for-grabs.net.

Skills

Programming	*Proficient:* C, Python, Java *Prior Experience:* C#, C++
Machine Learning	Tensorflow, Scipy, Numpy
Web	PHP, JavaScript, Bootstrap, HTML, CSS, XML
Others	ElasticSearch, Kibana, Logstash, Filebeat, Ansible, Linux, Git, LaTeX, OpenGl, .Net Technologies, Android, SQL.

Honors & Awards

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** University rank 1 for minor projects out of 200 projects	UPES
March 2017	**DART AND DASH** Secured 1st rank with cash prize among various coders in coding event "DART AND DASH" held at University Of Petroleum And Energy Studies.	Digital India Week
March 2017	**MINDSWEEPER** Secured 5th rank in a coding event "MINDSWEEPER" on "Hackerrank" organized at IIT roorkee during Cognizance 2017.	IIT Roorkee

Extracurricular Activity

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