nabh **Jos**

15, Nilgiri Apt. Alaknanda, New Delhi, 110019,

| ☑ rishabhjoshi0405@gmail.com | 备 rishabhjoshi.github.io | ☐ rishabhjoshi | in rishabh-joshi-887351b2

Education

Birla Institute of Technology and Science

Pilani, Rajasthan

B.E. (HONS.) IN COMPUTER SCIENCE

Aug. 2014 - Present

CGPA 9.20

The Mother's International School

New Delhi

2002 - 2014

2014 95.6% Class XII 2012 10 GPA Class X

Relevant Courses _

Neural Networks & Fuzzy Logic, Information Retrieval, Parallel Computing, Computer Graphics, Pattern Recognition, Effective Public Speaking, Creative Thinking, Srimad Bhagavad Gita

Experience

Indian Institute of Science MALL Lab (Prof. Partha Talukdar)

Bangalore, India

Jan. 2018 - Exp. Jul. 2018

• Work focused on creating a Domain Specific Knowledge Graph in a Never Ending Learning System (NELL)

- Worked on the problem of **Relation Extraction** using **Distant Supervision**
- Worked on Wikidata Knowledge Graph for the problem of Entity Linking

Samsung Research Institute

Bangalore, India

SUMMER INTERN

• Worked on the Data Link Layer for **5G network** as part of the Communications Protocol Team

May. 2017 - Jul. 2017

Created tools to aid in 5G packet generation and testing for MAC, RLC and PDCP sub-layers (focus on RLC)

Indian Institute of Remote Sensing, ISRO

Dehradun, India

RESEARCH INTERN

- May. 2016 Jul. 2016 Worked on DataCube, an analytical framework to provide an effective storage, retrieval and analysis of large earth observation datasets
- Determined the best GIS image storage formats for storing temporal satellite data
- Developed the core API and execution engine with algorithm templates for product generationDeveloped the core API and execution engine with algorithm templates for product generation

Projects

BITS LifeGuard - Wearables, Pervasive and Network Research Lab

BITS Pilani, India

MENTOR: PROF. RAHUL BANERJEE

- Worked as a Research Assistant to develop a fault-tolerant, cost-effective smart driver safety jacket to prevent road accidents.
- Worked on adaptive learning aspects of body sensor networks for **Sensor Fusion**
- · Worked on finding and implementing accurate sensor fusion algorithms to classify driver reflex degradation

Distance Iris Recognition

BITS Pilani, India

MENTOR: PROF. KAMLESH TIWARI

Jan. 2017 - May. 2017

- · Worked with Dr. Kamlesh Tiwari on creating a biometric Iris Recognition solution for Low Quality Distance Iris Images
- Used Haar Cascade Classifiers and Histogram of Oriented Gradients(HOG) for eye segmentation followed by thresholding and
- Used Gabor filters and Hamming Distance for normalization and matching of the Iris Codes

Ad Effectiveness and their impact on Sales

BITS Pilani, India Aug. 2017 - Dec. 2017

MENTOR: PROF. SANGEETA SHARMA

Used NLP tools and Trends data to correlate Ads with Sales

Correlated YouTube comment sentiments with effectiveness of Ad

Mini Projects BITS Pilani, India

Aug. 2016 - Present

- PSO Optimized K-Means : Studied and implemented Particle Swarm Optimization to improve clustering performance of K-Means
- Heading Generation using Speech Phonetics: Created a crawler to obtain clean speech audio and generated a summary and its using phonetics and tone of the speaker
- Parallel BranchAndBound: Implemented a parallel skeleton for BranchAndBound to solve TSP and Knapsack
- One Class Classification: Used Extreme Learning Machines to solve the problem of OCC for Sensor Data

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Honors & Awards

2017	1st, Campus ML Hackathon organized by MapMyIndia on Kaggle in APOGEE	BITS Pilani, India
2017	3rd, ML Hackathon organized by DE SHAW on HackerEarth	Online
2016	2nd , E-Yantra , a robotics competition organized by MHRD and IIT-Bombay	IIT Bombay, India
2016	National Finalist, Micorsoft's Build The Shield CTF competition	BITS Pilani, India
2015	, Recipient of Institute Merit Scholarship for academic excellence	BITS Pilani, India
2014	1574 , All India Rank (AIR), IIT-JEE	
2014	, Recipient of Govt. Of India, Inspire Scholarship (top 1% in CBSE)	
2014	Board Topper, Chemistry, CBSE(100/100)	
2014	School Topper, Computer Science, CBSE(99/100)	
2012	, Junior Science Talent Search (JSTS) Scholar, Dept. of Science, Govt. of India	

Position of Responsibility

Data Structures and Algorithms

TEACHING ASSISTANT

Helmed two lab sections and was Jury for the Online Judge with the responsibility of assisting 200+ students

BITS Pilani, India

Jan. 2017 - May. 2017

Embryo Club

EXECUTIVE COORDINATOR

• Responsible for handling all the finances of the club, increasing the amount from 20,000 to 1,80,000

Organized an Oasis Talk by Amish Tripathi handling all expenses and negotiations

BITS Pilani, India Apr. 2016 - Apr. 2017

npr. 2010 - ripr. 2011

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ACM BITS ChapterJoint Activities Coordinator

Responsible for all the activities of ACM throughout the year, successfully conducting more than 8 events

BITS Pilani, India Aug. 2015 - Aug. 2016

Skills_

Languages, C, C++, Python

Machine Learning, Numpy, Tensorflow, PyTorch, scikit-learn, Keras

Databases, MySQL, MongoDB, ElasticSearch