Rishabh Joshi

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EDUCATION

BITS PILANI

B.E. (Hons.) Computer Science Expected Aug 2018 | Pilani, India Cum. GPA: 9.28 / 10

AISSCE (CLASS XII)

Mother's International School Grad. May 2014 | New Delhi, India Score: 478 / 500

AISSE (CLASS X)

Mother's International School Grad. May 2012 | New Delhi, India GPA: 10 / 10

LINKS

Facebook://rishabh.joshi.047 GitHub://rishabhjoshi LinkedIn://rishabh-joshi-887351b2 Codeforces://rishabhjoshi

COURSEWORK

Information Retrieval

Neural Networks and Fuzzy Logic

Machine Learning

Operating Systems

Database Systems

Computer Graphics

Data Structures and Algorithms

Object Oriented Programming

Computer Architecture

Computer Networds (ongoing)

Design and Analysis of Algorithms (ongoing)

Compiler Construction (ongoing)

Parallel Computing (ongoing)

Network Security (graduate course-ongoing)

SKILLS

PROGRAMMING

Over 3000 lines

• C • C++ • Python

Familiar

- x86 Assembler Prolog R
- MySQL Java C# ŎpenGL
- Racket

DATA ANALYTICS

• scikit-learn • GraphLab

EXPERIENCE

ISRO | SUMMER RESEARCH INTERN

May 2016 - July 2016 | Dehradun, India

- Developed the DataCube for Uttrakhand using GeoSpatial Technologies for IIRS
- Analytical framework provides effective storage, retrieval and analysis of GBs of satellite data
- Determined best GIS image storage formats for storing GBs of image data
- Developed the core API and Execution engines of the DataCube
- Created algorithm templates to obtain products from Satellite data on the web portal

MAJOR PROJECTS

BITS LIFEGUARD | MENTOR: DR. RAHUL BANERJEE | HOD CSE, BITS PILANI Oct 2015 - Present | Research Assistant

- Devoloping a fault-tolerant, cost-effective smart driver safety jacket with real time monitoring of vital signs, to prevent road accidents and taking emergency action in the unlikely case an accident occurs
- Developed Bluetooth Authentication and intercommunication techniques for low computing capability sensor nodes
- Currently working on sensor fusion for LifeGuard

WEARABLES SENSOR FUSION | MENTOR: DR. RAHUL BANERJEE

August 2016 - Present | Study Project

- Working on Adaptive learning aspects of Body Sensor Networks and sensor data fusion
- Finding and implementing accurate Sensor Fusion algorithms to classify driver stress using physiological sensors
- Measuring the accuracy of the models created on various public driving datasets

E-YANTRA | IIT-BOMBAY | MHRD, GOVT. OF INDIA

18th March 2016 - 19th March 2016

- Represented BITS Pilani and came 2nd out of 57 teams from all over India in the finals of **e-Yantra**, a robotics competition
- Coded the Firebird-5 bot over a span of 3 months to solve the problem statement of a Hotel Room Service scenario

MINI PROJECTS

PSO OPTIMIZED K-MEANS

• Studied and implemented Particle Swarm Optimization and Ant Colony Optimization techniques to improve Clustering performance of K-Means

HEADING GENERATION USING SPEECH PHONETICS

• Created web crawler to collect speech audio data and generated a summary and its heading by using phonetics and tone of the speaker

ACHIEVEMENTS

2016	National finalist in Microsoft's Build The Shield CTF Competition
2014/15	Recipient of Institute Merit Scholarship for academic excellence
2014	1574 - AIR (All India Rank), IIT-JEE Examinaion (of 1 mil+)
2014	Recipient of Govt. of India's INSPIRE scholarship (top 1% in CBSE)
2014	Board Topper in Chemistry in Board Examination (100 / 100)
2014	School Topper in Computer Science in Board Examination (99 / 100)
2012	Junior Science Talent Search (JSTS) Scholar