Rishabh Joshi

rishabhjoshi.github.io | fb.com/rishabh.joshi.047
+91-982-862-1109 | f2014102@pilani.bits-pilani.ac.in

EDUCATION

BITS PILANI
B.E. (Hons.) Computer Science
Expected Aug 2018 | Pilani, India
Cum. GPA: 9.27 / 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

SKILLS
PROGRAMMING
Over 3000 lines
• C • C++ • Python
Familiar
• x86 Assembler • Prolog • R
• MySQL • Java • C# • OpenGL

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

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