

Pratyush Das

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- *GitHub* <https://github.com/reikdas>

Education

Institute of Engineering and Management

2017-2021(Expected)

Bachelor of Technology in Computer Science and Technology

- Innovation Lab
- Innovation and Entrepreneurship Development Cell, India(1 of 2 freshmen selected)

Don Bosco School, Park Circus

2002-2016

Council for the Indian School Certificate Examinations

- Cyberspace Club - President
- Chess Team
- Tech Team

Experience

Summer Student - DIANA-HEP(CERN)

June, 2017 - August, 2017

Mentor - Jim Pivarski(Princeton University); Worked from home

- Refactored code between ROOT4J and Spark-ROOT to make ROOT4J accessible to all Java projects

Projects

ROOT4J

DIANA-HEP

- Optimised codebase to facilitate interoperability

Spark-ROOT

DIANA-HEP

- Implemented Unit Tests
- Separated Spark bindings from TTree reading code

Driverless RC Car

Innovation and Entrepreneurship Development Cell, India

- Trained classifiers for Object Detection
- Patent Pending on Bluetooth based navigation system for driverless cars

Computer Vision based Home Automation System

Innovation Lab, Institute of Engineering and Management

- Trained classifiers to accurately detect the presence of a human being

Programming Skills

Languages

- *Java* • *Scala* • *Python*

Libraries/Frameworks

- *git* • *ROOT*

Presentations

- “Separation of Concerns - Refactoring code between ROOT4J and Spark-Root”
“DIANA Meeting: Student Projects”, 7th August, 2017
- “Separation of Concerns - Refactoring code between ROOT4J and Spark-Root”
“CMS Big Data Science Projects”, 9th August, 2017

Achievements

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| • Awarded the DIANA-HEP Fellowship (1 undergraduate student in the world) | 2018 |
| • Participated in the National Rapid Chess Championship | 2017 |
| • International Rated Chess Player (Federation Internationale de echecs) | 2016 |
| • Adhyayan Student Leadership Contest(Adhyayan India) - Third | 2015 |
| • Battle of Wits (Heritage School, Kolkata) - Second | 2014 |
| • IT Quiz (Computer Society of India) - Second | 2014 |
| • Bosco Chaturang (Don Bosco School, Park Circus) - Second | 2013 |
| • Purbasha Open Chess Tournament (Purbasha Committee) - First | 2013 |
| • Essay Writing Competition (Income Tax Department of India) - Special Mention | 2012 |