

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

- Fermi National Accelerator Laboratory** June, 2018 - September, 2018
Visiting Scientist - DIANA-HEP Fellow
Mentor - Jim Pivarski(Princeton University)
 - Implemented the first ROOT file writing interface outside of C++ ROOT
- DIANA-HEP** June, 2017 - August, 2017
Summer Student(Worked from home)
Mentor - Jim Pivarski(Princeton University), Viktor Khristenko(CERN)
 - Refactored code between ROOT4J and spark-root to make ROOT4J accessible to all Java projects

Projects

- uproot**
Fermi National Accelerator Laboratory
 - Added ROOT file writing support
- 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*
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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
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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 |