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(Worked from home) - DIANA-HEP(CERN)   June, 2017 - August, 2017
Mentor - Jim Pivarski(Princeton University), Viktor Khristenko(CERN)
- 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

- 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