Pratyush Das

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 \bullet Email

reikdas@gmail.com

ullet 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

• Worked at the LHC Physics Centre as a part of the CMS Collaboration

DIANA-HEP

June, 2017 - August, 2017

Summer Student(Worked from home)

Mentor - Jim Pivarski(Princeton University), Viktor Khristenko(CERN)

 $\bullet \ \ Refactored\ code\ between\ ROOT4J\ and\ spark-root\ to\ make\ ROOT4J\ accessible\ to\ all\ Java\ projects$

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

 \bullet Java \bullet Scala \bullet Python

Libraries/Frameworks

 \bullet git \bullet ROOT

Publications

• N.Saha, **P.Das**, H.N.Saha, "Authorship Attribution of Short Texts using a Multi Layer Perceptron", International Journal of Applied Pattern Recognition, *Accepted*.

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