Pratyush Das

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GitHub

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https://github.com/reikdas

Education

Institute of Engineering and Management, Kolkata

2017-2021(Expected)

Bachelor of Technology in Computer Science and Engineering

Don Bosco School, Park Circus

2002-2016

Council for the Indian School Certificate Examinations

Experience

Fermi National Accelerator Laboratory

June, 2018 - September, 2018

Visiting Scientist - DIANA-HEP Fellow; Worked at the LHC Physics Centre as a part of the CMS Collaboration

Mentor - Jim Pivarski(Princeton University)

- $\bullet\,$ uproot ROOT IO Software in Python which streams all data as numpy arrays
 - Examined ROOT serialization of simple objects.
 - Added functionality to write ROOT files with strings and histograms.

DIANA-HEP

June, 2017 - August, 2017

Summer Student(Worked from home)

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

- spark-root Apache Spark datasource for ROOT
 - Separated spark bindings from TTree reading code
 - Implemented Unit Tests
- root4j ROOT library in Java
 - Optimized codebase to facilitate interoperability

Programming Skills

Experienced

• Python

Familiar

 \bullet Java \bullet Scala \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, 2018 Vol. 5 No. 3, Pages 251-259, DOI: 10.1504/IJAPR.2018.10016100.

Presentations

• Writing files with uproot

-ROOT Users' Workshop (Academy of Sciences and Arts of Bosnia and Herzegovina)

2018 2018

-DIANA Meeting: Updates on ROOT I/O(Vidyo)

2010

Separation of Concerns - Refactoring code between ROOT4J and Spark-Root
-DIANA Meeting: Student Projects(Vidyo); CMS Big Data Science Projects(Vidyo)

2017

Patents

• Autonomous navigation system for driverless cars, Application no. - 201831024950. Patent pending.

2018

Achievements

• Awarded the IRIS-HEP undergraduate fellowship.

2019 2018

• International Rated Chess Player (Federation Internationale des Echecs)

2016

• Adhyayan Student Leadership Contest(Adhyayan India) - Third

2015

• IT Quiz (Computer Society of India) - Second

• Awarded the DIANA-HEP undergaduate felowship.

2014