Pratyush Das

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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, 2019 - September, 2019

Mentor - Jim Pivarski(Princeton University)

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

- uproot ROOT IO Software in Python which streams all data as numpy arrays
 - Added functionality to write ROOT files with TTrees.

June, 2018 - September, 2018

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

- uproot -
 - Examined ROOT serialization of objects.
 - Added functionality to write ROOT files with strings and histograms.

DIANA-HEP

June, 2017 - August, 2017

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

Summer Student(Worked from home)

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

Workshops and Summer Schools

CoDaS-HEP

Princeton University

Programming Skills

Experienced

• Python

Familiar

 \bullet Java \bullet C \bullet Go

Libraries/Frameworks

 \bullet numpy \bullet ROOT \bullet git

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

-ROOT Users' Workshop (Academy of Sciences and Arts of Bosnia and Herzegovina)
-DIANA Meeting: Updates on ROOT I/O(Vidyo)

2018 2018

• Separation of Concerns - Refactoring code between ROOT4J and Spark-Root

-DIANA Meeting: Student Projects(Vidyo); CMS Big Data Science Projects(Vidyo)

2017

2019

Achievements

Awarded the IRIS-HEP undergraduate fellowship.
Awarded the DIANA-HEP undergaduate 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

2014