Pratyush Das

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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)
- uproot - ROOT IO Software in Python which streams all data as numpy arrays
    - Implemented library to write ROOT files
    - First ROOT file writing interface outside of C++ ROOT

DIANA-HEP(CERN)　　　　　　　　　　　　　　　　　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

- Java, Scala, Python
- 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.　　　2018

Presentations

- "Separation of Concerns - Refactoring code between ROOT4J and Spark-Root"
  -DIANA Meeting: Student Projects(Vidyo); CMS Big Data Science Projects(Vidyo)　　　2017
- "Writing files with uproot"
  -ROOT Users' Workshop (Sarajevo, Bosnia & Herzegovina); DIANA Meeting: Updates on ROOT I/O(Vidyo)　　　2018

Patents

- Bluetooth based navigation system for driverless cars, Application no. - 201831024950. *Patent pending.*　　　2018

Achievements

- Awarded the prestigious DIANA-HEP Fellowship　　　　　　　　　　　　　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