

Pratyush Das

- *Phone* (+91) 9051603323
- *Email* reikdas@gmail.com
- *GitHub* <https://github.com/reikdas>

Education

Institute of Engineering and Management, Kolkata <i>Bachelor of Technology in Computer Science and Engineering</i>	2017-2021(Expected)
Don Bosco School, Park Circus <i>Council for the Indian School Certificate Examinations</i>	2002-2016

Experience

Fermi National Accelerator Laboratory Visiting Scientist - DIANA-HEP Fellow; Worked at the LHC Physics Centre as a part of the CMS Collaboration <i>Mentor - Jim Pivarski(Princeton University)</i> <ul style="list-style-type: none">• uproot - ROOT IO Software in Python which streams all data as numpy arrays<ul style="list-style-type: none">- Implemented library to write ROOT files- First ROOT file writing interface outside of C++ ROOT	June, 2018 - September, 2018
DIANA-HEP(CERN) Summer Student(Worked from home) <i>Mentor - Jim Pivarski(Princeton University), Viktor Khristenko(CERN)</i> <ul style="list-style-type: none">• spark-root - Apache Spark datasource for ROOT<ul style="list-style-type: none">- Separated spark bindings from TTree reading code- Implemented Unit Tests• root4j - ROOT library in Java<ul style="list-style-type: none">- Optimized codebase to facilitate interoperability	June, 2017 - August, 2017

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