

# Pratyush Das

- *Phone* +91 (0)9051603323
- *Email* reikdas@gmail.com
- *GitHub* <https://github.com/reikdas>

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## Education

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### 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

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## Experience

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### Summer Student - DIANA-HEP

June, 2017 - August, 2017

*Mentor - Jim Pivarski; Worked from home*

- Refactored code between ROOT4J and Spark-ROOT to make ROOT4J accessible to all Java projects

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## Projects

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### 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

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## Programming Skills

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### Experienced

*Java • Scala*

### Intermediate

*ROOT • Python • Apache Spark • git*

### Beginner

*C • VB.NET • L<sup>A</sup>T<sub>E</sub>X*

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## Presentations

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- “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

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## Submitted Publications

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- N.Saha, P.Das et al., “Authorship Attribution of Short Texts using Multi-Layer Perceptron.”, IEEE Transactions on Cybernetics, 2018.

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## Extracurricular Achievements

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| • 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 |