



## Education

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- National Institute of Technology, Durgapur
  - M.Tech. in Operations Research, May 2018, CGPA 7.75
  - Graduate Courses : Programming Language and Data Structure, Automata and Algorithms, Discrete Mathematics, Operations research, Probability and Statistics, Optimization Techniques, Numerical Methods
- National Institute of Technology, Durgapur
  - B.Tech. in Biotechnology with open electives from Computer Science, May 2011, CGPA 7.0
  - Undergraduate Courses : Data Structures, Computer Networks, Operating Systems, Communication Network, Database Management Systems

## Employment(s)

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- As a Teaching Assistant, taught following courses during M.Tech. at NIT Durgapur (July 2017 - May 2018)
  - Numerical Analysis Lab using C programming, May 2018 .
  - Operations Research Lab using Matlab, Dec 2017 .
- System Engineer, TCS(Tata Consultancy Services, Chennai) (July 2011 - July 2013)
  - Remotely managed integration servers installed on Redhat systems using linux commands and script.
  - Created web services to migrate data from legacy system IBM DB2 database to latest oracle database using Oracle Middleware Technology.

## Course Projects

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- M.Tech project: Recognition of printed Odia(A language spoken in India) character using neural network , June 2018.
  - recognized 62 basic Odia characters (10 numerical, 12 vowels, 40 consonants) in a given image and convert them to computer editable text using deep neural network. Got an accuracy of 97.75
  - Input layers = 784, hidden layers = 300, output layers = 62
  - Technology used: Python, OpenCV
- Created web based game 2048 : <https://gitlab.com/psonlinux/2048-game-web>
- Created following command line games
  - 2048 in C++, <https://gitlab.com/psonlinux/2048>
  - "Game of Fifteen" in C, <https://gitlab.com/psonlinux/game-of-fifteen>
- Created GUI game
  - Breakout in C, <https://gitlab.com/psonlinux/breakout>

## Additional Courses

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- Deep Learning Specialization, Coursera, Jan 2019
  - Neural Networks and Deep Learning, Grade Achieved: 98.6%
  - Structuring Machine Learning Projects, Grade Achieved: 96.7%
  - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Grade Achieved: 100.0%
  - Convolutional Neural Networks, Grade Achieved: 98.9%
- CS50's Introduction to Computer Science, Edx, July 2019
- Introduction to Computational Thinking and Data Science, Grade achieved 97%, EdX, MIT, Aug, 2018, certificate link <https://courses.edx.org/certificates/dedde4a63ca24a20895fa4332c741df4>

- Introduction to Computer Science and Programming Using Python, Grade achieved 99%, EdX, MIT, Sept 2017  
certificate link <https://courses.edx.org/certificates/81b7b36c7f7b484ebb5880094380b472>
- Machine Learning Stanford University, Coursera, November 2017, Grade Achieved: 97.6%
- Algorithms: Design and Analysis, Part 1, Coursera, Grade Achieved: 84.5%, September 2015
- Front-End JavaScript Frameworks: AngularJS, Coursera, July 2016
- Introduction to jQuery, Grade achieved 98%, Microsoft DEV208X, EdX
- Introduction to Computing with Java, Grade achieved 95%, EdX, Sept, 2014

## Skills and Technologies

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- Algorithms , Data Structure, Object Oriented Design, Responsive Web Design
- C++, C, Java, J2EE, Python, Matlab, OpenCV, L<sup>A</sup>T<sub>E</sub>X, HTML5, Bootstrap, jQuery, AngularJS, MySQL, Oracle 11g, SQL
- Vim, Git, GDB, Eclipse IDE, Visual Studio
- Linux, Ubuntu, Shell Scripting

## Achievements

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- Solved 450+ Leetcode problems (<https://leetcode.com/psonlinux/>)
- All India Rank 1593 among 1,08,495 in [GATE-2016](#) in Computer Science .
- Cummins Inc.'s client provided [certificate](#) of appreciation.