

Pranjal Tale

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

INT. MSc IN APPLIED
MATHEMATICS

2015 - 2020 (expected)
Roorkee, India
Cum. GPA: 7.386

JAWAHARLAL-NEHRU SCHOOL

SENIOR SECONDARY(CBSE)
Grad. May 2015
Bhopal, India

LINKS

Portfolio:// pranjaltale16
LinkedIn:// [pranjal-tale](https://www.linkedin.com/in/pranjal-tale)

COURSEWORK

COMPUTER RELATED

Mathematical Imaging Techniques
Database Management Systems
Linear Algebra
Design and Analysis of Algorithms
Data Structures
Machine Learning (Andrew NG)
cs231n (CNN for Visual recognition)

MATHEMATICS RELATED

Complex and Real Analysis
Probability and Statistics
Number Theory
Discrete Mathematics
Graph Theory
Numerical Methods

SKILLS

PROGRAMMING

Haskell, Python, C++

UTILITIES

Linux, GitLab, MySQL, Redis,
TensorFlow, scikit-learn

REFERENCES

DR. A. K. NAYAK

Associate Professor, Dept. of
Mathematics
Indian Institute of Technology
Roorkee
nayakfma@iitr.ac.in

EXPERIENCE

VERNACULAR.AI | SOFTWARE DEVELOPER INTERN

Nov 2017 – Dec 2017 | Bangalore, India

- Developed a python package to parse text into structured data. It parses temporal expressions from different languages and recognize quantities in different ways.
- Tech-Stack: Python, Django, git

CODEWORLD | SUMMER OF HASKELL 2017

May 2017 – Sep 2017 | Work from home

- Developed a standalone executable Cabal package for source code compilation wrapped over GHCJS; added test suite for the same and regex parser for filtering the error messages. Made a custom tree parser using haskell-src-exts and syb, to check for syntax errors before compilation.
- Tech-Stack: Haskell, Javascript, Shell scripting, SNAP-framework, git

TECHNICAL PROJECTS

SMP PORTAL | INFORMATION MANAGEMENT GROUP, IIT ROORKEE

- Developed an app enabling information exchange, event announcement, documents sharing between mentors, mentees and team, aimed at fostering healthy interaction.
- Tech-Stack: Django, mysql, semantic-UI, jQuery, django-auth, Apache2.

ACADEMIC PROJECTS

SUMMER UNDERGRADUATE RESEARCH AWARD | IIT ROORKEE

- Developed a model in MATLAB for 3D analysis of Oxygen transfer for animal cell suspension culture, mentored by Dr. Ameya K. Nayak. To study the flow field and oxygen transport in a micro bioreactor and extend the results for micro-scale.

IMAGE DEBLURRING

- Image single image deblurring using Blind Deconvolution method in MATLAB, mentored by Dr. Sanjeev Kumar.

LAB EXPERIENCES

- Implemented Several Algorithms in Data Structures, also incorporated advanced topics such as Segment Tree, AVL Tree, Dynamic Tree etc.

ACHIEVEMENTS

- 2017 Recipient of Summer Undergraduate Research Award (SURA) by IITR
- 2017 Participated in HackDTU and successfully completed the app in 24 hours
- 2016 Successfully completed an app overnight as a part of Code.Fun.Do 17
- 2016 Qualified of Elimination round of Codechef SnackDown-2016

POSITION OF RESPONSIBILITY

PROJECT LEADER | INFORMATION MANAGEMENT GROUP

Jan 2016 – Present

- IMG, (Information Management Group) is a student's group in IIT Roorkee responsible for development and maintenance of internet and intranet applications in the institute, including the website of IIT Roorkee.

JOINT SECRETARY | PROGRAM MANAGEMENT SECTION

Aug 2016 – Present

- Program management section is a cultural club under Cultural Council IITR, and is responsible for the management of all the events of Cultural Council.