

Pranjal Pratik Lal

Third Year Undergraduate
Department of Computer Science and Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2016 - Present	B.Tech	Indian Institute of Technology, Kanpur	8.1/10
2016	CBSE(XII)	D.A.V. Public School, Bariatu, Ranchi	95%
2014	CBSE(X)	D.A.V. Public School, Bariatu, Ranchi	10/10

Scholastic Achievements

- Secured **All India Rank 213** in **JEE Advanced 2016**
- Secured **All India Rank 691** in **JEE Mains 2016**
- Awarded the prestigious **KVPY fellowship** by Department of Science and Technology, Government of India
- Cleared **NTSE 2014** (Level 1)
- Secured **0.1% Merit Certificate** in Mathematics, CBSE 2016

Projects

- **Predicting Behavior of Bug Finding Tools KLEE and AFL** (June'18-July'18)
Mentor: Prof. Subhajit Roy, Assistant Professor, IIT Kanpur
 - Given a set of programs(in C) with bugs injected and run output generated by KLEE or AFL to detect the presence of bug
 - Aimed to predict whether KLEE or AFL software would detect the bug on new set of programs
 - Implemented Gradient Boosted Trees, Decision Trees and Association Rules Mining algorithms to generate models
 - Used Machine Learning libraries such as Scikit-Learn, XGBoost and MLxtend to implement said algorithms
- **Competitive Machine Learning and Data Analytics** (February'17-April'17)
Association for Computing Activities, IIT Kanpur
 - Learnt the Basics of Machine Learning through an online Machine Learning course
 - Implemented Machine Learning algorithms on Python using the Scikit-Learn library
 - Participated in 3 Introductory competitions on Kaggle.com

Technical Skills

- **Programming Languages:** C, C++, Python, L^AT_EX, R, Bash
- **Software and Libraries:** Scikit-Learn, TensorFlow, PyTorch, XGBoost, Matlab, GNU Octave, GNU Plot, Git, AutoCAD

Positions of Responsibility

- **Secretary, Astronomy Club** (April'17-April'18)
 - Mentored juniors for Heavens Above, Takneek'17
 - Conducted various Institute wide workshops and lectures related to introductory level Astronomy
 - Assisted in the organization of Astronomy Club SnT Week

Relevant Courses

Introduction to Machine Learning(ongoing)	Algorithms II(ongoing)
Operating Systems(ongoing)	Data Structure and Algorithms
Probability and Statistics	Computing Laboratory 2(ongoing)
Computer Organisation	Computing Laboratory 1
Abstract Algebra	Discrete Mathematics
Mathematical Logic	Fundamentals of Computing

Extra-Curricular Activities

- Participated in Conscience(Programming Club Competition) in Takneek'17
- Volunteered to be a part of Public Relations Team, Antaragni '16
- 2nd Runner up in RoboTricks conducted by Robotics Club during Takneek'16
- Member of National Cadet Corps'16