

Hunar Preet Singh

Second Year Undergraduate
Electrical Engineering
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EDUCATION

- **Indian Institute of Technology** Kanpur, India
CPI: 8.92/10.0 July 2016 – Present
- **Buddha Dal Public School** Patiala, India
CBSE Class XII, 92.8% 2016
- **Saint Peter's Academy** Patiala, India
CBSE Class X, CGPA: 10.0/10.0 2014

HONORS & AWARDS

- **All India Rank 595, Joint Entrance Exam Advanced** India
Among 1,50,000 candidates July 2016
- **Academic Excellence Award** IIT Kanpur
Secured award for excellent academic performance in academic year 2016-17 Dec 2016
- **Course (Manufacturing Processes-1) Project Adjudged as Special Mention Project** IIT Kanpur
Among top 10 out of 100 course projects Nov 2017
- **Amongst National Top 1% in National Standard Examination in Physics (IAPT)** India
Was amongst 6 selected students in Punjab state for Indian National Physics Olympiad Nov 2015
- **KVPY Scholarship Awardee** India
Secured All India Rank 495 2014
- **Cleared NTSE Stage 1** India
Secured rank 14 in Punjab state Nov 2013

PROJECTS

- **N-Body Simulation (Using Parallel Computation)** Feb. 2017 - April. 2017
Association for Computing Activities(ACA) IIT Kanpur
 - **Description:** Built a visual simulation that demonstrates the path of particles in an multiple object gravity field systems using parallel computing (on a GPU) and then comparing serial and parallel implementation running times.
 - **Language and Libraries used:** C++, OpenCV, CUDA Toolkit
 - **Serial Implementation:** Runs the simulations using CPU's core.
 - **Parallel Implementation:** Runs the simulations using GPU's cores.
 - **Link:** <https://github.com/hunarpreet1/nBody>
- **News Article Summarizer (Deep Learning and NLP)** May. 2017 - July 2017
Programming Club IIT Kanpur
 - **Description:** Implemented an extractive version of news article summarizer using various deep learning techniques. It gives a brief summary of any news article fed as input. The algorithm learns the word embeddings using skip-gram model, followed by sentence embeddings, and after their clustering the central sentence embeddings are calculated to give a decent summary.
 - **Dataset Used:** The model is trained on Reuters Text Corpus
 - **Language and Libraries used:** Python, Tensorflow
 - **Link:** https://github.com/hunarpreet1/reuters_main

TECHNICAL SKILLS

- **Languages:** C/C++, Python, Java, JavaScript, HTML, CSS, Octave
- **Utilities:** Git, Latex, Open CV, CUDA
- **Operating Systems:** Linux(Ubuntu), Windows
- **Miscellaneous:** Machine Learning, Deep Learning, Natural Language Processing, Parallel Computing

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Fundamentals of Computing
- Signals Systems and Networks
- Linear Algebra
- Complex Analysis (awarded A*)
- Multivariable Calculus
- Probability and Statistics (ongoing)

POSITIONS OF RESPONSIBILITY

- **Secretary** July 2017 - Present
Programming Club IIT Kanpur
- **Secretary** April 2017 - Present
Electronics Club IIT Kanpur
- **Student Guide** May 2017 - Present
Counselling Service IIT Kanpur

EXTRA CURRICULAR ACTIVITIES

- Participated in inter hall technical fest Takneek'16. Built an electronic version of chrome dinosaur game.
- Participated in an athletics (400 m) event in Freshers Inferno'16, an inter hall sports event for freshermen.
- Participated in inter hall cultural fest Spectrum'16.
- Participated in Microsoft code.fun.do 2017. Built an android quizzing app.