

# Hunar Preet Singh

Second Year Undergraduate  
Electrical Engineering  
Indian Institute of Technology Kanpur

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## EDUCATION

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- **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

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- **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

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- **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](https://github.com/hunarpreet1/reuters_main)

## TECHNICAL SKILLS

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- **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

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

## POSITIONS OF RESPONSIBILITY

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- **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

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- 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.