

Punyajoy Saha

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Skills

- Experienced in Natural Language Processing Tasks
- Enthusiastic participant in machine learning competitions
- Capable of leading and managing projects.

Intern Experiences

MAY 2018 - PRESENT

Cnerg Lab, IIT Kharagpur - *Detection of Hate Speech in Online Social Networks*

- Participated in three international competitions regarding hatespeech.
- Part of the winning team "Hateminers" at [AMI Evalita-2018](#).
- Within [top 10](#) in [Hateval](#) , semeval-2019.
- Member of the project which is releasing the first ever dataset for analysis of counterspeech at [ICWSM-2019](#)

DECEMBER 2017 - MARCH 2018

Bluezeal Lab, IIT Bombay - *Development of intelligent software solutions*

- Developed artificially intelligent solution to the problems of the Start-up that included
 - optical character recognition
 - web scraping and chatbot solutions.

MAY 2017 - JULY 2017

Neurocomputing Lab ,IIT Delhi - *Analysis of Hindi Letters using Eye Tracking*

- Developed a model that can group hindi alphabets into cluster based on visual symmetry
- Developed a system to extract analysis data from eye tracking raw data
- Was part of the project "Analysis of hindi fonts on reading comprehension" , later a paper on this was selected at [IHCI-2018](#)

Education

JULY 2015 - PRESENT

Indian Institute of Engineering Science and Technology , Shibpur - *B.Tech in Computer Science and Technology*

- Holding a CGPA of 8.9 currently
- Computer Vision Head at Robodarshan, robotics club of the college (2017-18) .

APRIL 2013 - MARCH 2015

Kendriya Vidyalaya Sec-4 R.K Puram – *Science Stream*

- Qualified AISSCE exam with 94.2%
- Activities and Society : Quiz, Debate, Jawaharlal nehru national science exhibition, Drawing

Awards and Achievements

- The paper “Thou shalt not hate: Countering Online Hatespeech” got accepted at [ICWSM-2019](#).
- The paper “Hateminers: Detecting hatespeech against women” got recognized as best of the week research. [See here](#)
- Winner of the misogynistic text classification competition in [AMI Evalita-2018](#)
- Ranked 70th in Hackerearth Deep Learning challenge. [See here](#)
- The paper “ Modifications of KNN algorithm” own the best paper award in FOSET Paper presentation. [See here](#)
- Qualified for the Finals in Conquest, a competition of Robotix at IIT Kharagpur. [See here](#).

Projects

● Published projects

- The paper “Thou shalt not hate: Countering Online Hatespeech” introduces the first ever counterspeech dataset and its analysis.
- The paper “*Hateminers : Detecting Hatespeech against Women*” describes the winning model at [AMI Evalita-2018](#), Available online at Arxiv.org. [See here](#).
- “*Effect of Devanagari Font Type in Reading Comprehension: An Eye Tracking Study*” which describes the effect of different devanagari fonts type in comprehension of an article by the reader. [See Here](#) .
- “*Document categorization using graph structuring*” which explores a graphical approach to categorize documents. [See Here](#).

● Others

- “ *Review of GAN architectures* ”, this is the current final year project which is aimed at exploring the GAN architectures using proper evaluation measures.
- “*Open HmnD*” which was aimed at starting a open source development of humanoid robots. [See here](#).
- Organised an inter college computer vision competition at Instruo -2017. Also participated in and organised intra college robotics competition.

- “*Sweeper Bot using SLAM*” which was aimed at making a low cost floor cleaning robot in a medium sized house using SLAM (simultaneous localization and mapping) and water detector. [See here](#)
- “*Modification of KNN algorithm*” which was aimed at exploring possible modifications of KNN algorithm like creating a different boundary and using a variable ‘K’ .[See here](#).