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**EDUCATION**

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- IIT Kharagpur** Kharagpur, India  
• **Ph.D. Student (PMRF Fellow)**, Computer Science & Engineering Sep 2020 – Present  
*Supervisors:* Niloy ganguly, Pawan Goyal; *Research Areas:* Question Answering Systems, IR, NLP
- IIT Kharagpur** Kharagpur, India  
• **BTech. Honors in Electronics & Electrical Communication Engineering**; CGPA: 9.21/10 2015 – 2019
- Mahathi College** Visakhapatnam, India  
• **Board of Intermediate Education Andhra Pradesh**; 95.6% 2015

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**PUBLICATIONS**

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- **Team Enigma at ArgMining-EMNLP 2021: Leveraging Pre-trained Language Models for Key Point Matching:** Manav Nitin Kapadnis, Sohan Patnaik, Siba Smarak Panigrahi, Varun Madhavan, **Abhilash Nandy** ArgMining Workshop-EMNLP 2021. [Link]
- **Question Answering over Electronic Devices: A New Benchmark Dataset and a Multi-Task Learning based QA Framework:** **Abhilash Nandy**, Soumya Sharma, Shubham Maddhashiya, Kapil Sachdeva, Pawan Goyal, Niloy Ganguly, EMNLP 2021 Findings. [Link]
- **cs60075.team2 at SemEval-2021 Task 1 : Lexical Complexity Prediction using Transformer-based Language Models pre-trained on various text corpora:** **Abhilash Nandy**, Sayantan Adak, Tanurima Halder, Sai Mahesh Pokala, ACL SemEval 2021 [Link]
- **indicnlp@kgp at DravidianLangTech-EACL2021: Offensive Language Identification in Dravidian Languages:** Kushal Kedia, **Abhilash Nandy**, EACL Workshop 2021 [Link]
- **A Survey on Applications of Siamese Neural Networks in Computer Vision:** **Abhilash Nandy**, Sushovan Halder, Subhashis Banerjee, Prof. Sushmita Mitra, INCET 2020 [Link]
- **A Densenet based Robust Face Detection Framework:** **Abhilash Nandy**, ICCV WIDER Workshop 2019 [Link]
- **An Adaptive Anaphylaxis Detection and Emergency Response System:** Gopabandhu Hota, **Abhilash Nandy**, Dishank Yadav, Kshitiz Goel, Saumo Pal, Ankush Roy, IEEE CBMS 2019 [Link]
- **Kinship Verification using Deep Siamese Convolutional Neural Network:** **Abhilash Nandy**, Shanka Subhra Mondal, IEEE FG RFIW Workshop 2019 [Link]
- **Understanding Community Rivalry on Social Media: A Case Study of Two Footballing Giants:** Sopan Khosla, Siddhant Arora, **Abhilash Nandy**, Ankita Saxena, Anandhavelu N, ACM IUI HUMANIZE Workshop 2019 [Link]
- **Identification of Cervical Pathology in Colposcopy Images using Adversarial Networks:** **Abhilash Nandy**, Rachana Satish, Debdoot Sheet, ICVGIP MedImage Workshop 2018 [Link]
- **Low-cost Brain Controlled Orthotic Exoskeleton Arm for Monoplegic Paralyzed Individuals:** Adarsh Kumar Kosta, **Abhilash Nandy**, Chaitanya Paikara, Dishank Yadav, Souham Mandal, Shashikant Soren, IEEE RTEICT 2018 [Link]

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**EXPERIENCE**

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- L3S Research Center, Leibniz University** Hannover, Germany  
• **Visiting Researcher** Aug 2021 - Present
  - **Working on a project on E-Manual Document Similarity:** Using various contrastive learning techniques
- Adobe India** Noida, India  
• **Software Developer** June 2019–Dec 2019
  - **Part of Adobe Experience Manager (AEM) Team:** Worked on both frontend and backend of the codebase.
- Adobe Big Data Experience Labs** Bangalore, India  
• **Research Intern** Summer 2018
  - **Analysing and understanding Community Rivalry in twitter:** Built a web demo which detected and analyzed hate originators and propagators, and the work also led to a publication

- **TCS Innovation Labs** Bangalore, India  
*Research Intern* *Winter 2017*
  - **Anomaly Detection in data collected from sensors:** Worked in the CTO Project using deep learning methods. Used Convolutional Neural Networks (CNNs) to learn from data
- **Indian Statistical Institute** Kolkata, India  
*Research Intern* *Summer 2017*
  - Performed a survey on applications of Siamese Neural Networks in Computer Vision, which got published.

## ACHIEVEMENTS & SCHOLARSHIPS

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- Our proposal “Question Answering in E-Manuals” was one of the finalists in **Qualcomm Innovation Fellowship Competition**, 2021
- **Prime Minister Research Fellow**, 2020
- Our team was among the top 10 teams in the **GE Healthcare Precision Health Challenge**, 2018
- All India Rank of **795** in **JEE Advanced**, 2015
- Qualified **NTSE (National Talent Search Examination Scholarship)**, 2011

## PROJECTS

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- **Lexical Complexity Prediction** IIT KGP  
*NLP Term Project* *Spring 2021*
  - Participated in a *SemEval* 2021 Competition on Lexical Complexity Prediction. Used various custom and off-the-shelf pre-trained language models
  - A paper on the work was accepted in **ACL SemEval** 2021.
- **Proposal of a new summarization metric** IIT KGP  
*Term project* *Spring 2021*
  - Proposed a new intent-based summarization metric for the legal domain
- **AI & Ethics Term Project** IIT KGP  
*B.Tech Project* *Spring 2021*
  - Analysis of annotator influences in a rationale annotated dataset
  - Link - <https://github.com/kushal2000/Annotator-Analysis-HateXplain>
- **Screening of cervical cancer from cervicography images** IIT KGP  
*B.Tech Project* *July 2018 - April 2019*
  - Used attention based models and adversarially trained networks in order to learn features from less data and use less resources in terms of memory and time.
  - The work using adversarial networks was published in a workshop.

## COMPUTER SKILLS

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**Languages:** Python, C/C++, Java, C#, HTML, CSS  
**Toolboxes / Frameworks:** Pytorch, Tensorflow, Keras, spaCy, nltk, scikit-learn, Pandas, numpy

## COURSEWORKS

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- Deep Learning, NLP, Information Retrieval, Scalable Data Mining, Image Processing, Machine Learning

## HOBBIES

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- **Interests:** Singing, Table Tennis

## LANGUAGES

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- **Languages:** English, Bengali, Hindi