

Kshitij Soni

CONTACT INFORMATION	Address: Available on request Phone: Available on request	Email: kshitijsoni318@gmail.com kshitijsoni@iipe.ac.in
RESEARCH INTEREST	Machine learning, Artificial Intelligence, Quantum Computing, Nanotechnology, Cloud Computing Parallel and Distributed Processing	
EDUCATION	Indian Institute of Petroleum and Energy- Vizag , Visakhapatnam, India <i>Bachelor of Technology (Honors)</i> August 2019- August 2023 <ul style="list-style-type: none">Major: Petroleum EngineeringCGPA: 7.54/10.00 (**Due Covid19 Pandemic the CGPA is calculated excluding practical grades)	
ACADEMIC HONORS	Secured International Rank 499 in the finals of 16th SOF- Cyber Olympiad (2017). Secured Zonal Rank 15th in the Zonal Computer Olympiad (2017) organized by Indian Association for Research in Computing Science. Recipient of Excellence Award for securing 1st position among all Bhilai Steel Plant (BSP) Schools in All India Senior School Certificate Examination.	
WORK EXPERIENCE	Indian Institute of Technology Kanpur April 2020- June 2020 Summer Research Intern (Applied ML and Data Science) Mentor: Professor Laxmidhar Behera Learned and applied machine learning and data science concepts in real world environments. Completed a Research project, titled ' <i>ADTrap: Adverse Drug Reaction Classification with NLP Tools and Deep Learning Methods.</i> ' Completed specialization in TensorFlow 2.0.	
	Expertshub December 2019- April 2020 Program Manager Mentor: Kirubakaran Reddy Supervised the Entrepreneurship Technology Outreach Program and Global Innovation Challenge (2020) organised by Expertshub in collaboration with Solaris and Saksham - Ecell, IIM Udaipur. Guiding colleges/ universities across Andhra Pradesh and Telangana Region to develop Innovation and Incubation Centres.	
	Undergraduate Teaching Assistant November 2019- Present Course: Neural Networks and Deep Learning Mentor: C V Rao Assisted the professor in solving students' queries regarding material taught in class and conducting class tests. Formulated and conducted competitive programming competitions, getting students to apply the concepts learnt. Conducted various competitions on ML & AI domain in Hackerearth.	
KEY PROJECTS	Online Examination System April 2020- August 2020 The main purpose of launching our system is to remove the existing flaws in the existing system of conducting online exams. Online Examination System (OES) can be used by Educational Institutes to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves a lot of time but also gives fast results. Moreover, there is no restriction that the examiner has to be present while the candidate is taking the test.	

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Summer Internship Research Project

April 2020 - July 2020

ADTrap

Mentor: Professor Laxmidhar Behera

Primary Intent was to explore the extent to which ADR assertive text segments can be classified from text based Data sources, particularly social media sources and structured datasets. Investigated different Neural Network Architectures for ADR classification. Explored NLP techniques to extract informative and portable features from Text coming from different sources. Investigated the performance of supervised classification approaches from data from social media to data from other more structured and unstructured sources.

Undergraduate Research Project

March 2020- Present

Optimization of tool wear and tear using Digital Image Processing

Mentor: Asst. Prof. Ranjan Pramanik

The Machine Vision System can give exhaustive picture of the wear and tear zone and thus can indicate the severity more efficiently. The measurement of average tool wear and tear with the present vision system will be expected to be in close agreement with that with the digital microscope. The same program may be used for online machine system if some additional features are included like edge detection algorithms, reduction of image noises and orientation of the tool.

Undergraduate Project

December 2019- March 2020

Speech Recognition System

Mentor: Asst. Prof. C V Rao

The approach was well optimized RNN training system that uses multiple GPU's as well as set of data synthesis techniques that allowed us to efficiently obtain a large number of varied data for training. The system does not need hand design equipments to model background noise, reverberation, or speaker, vibration but instead directly learns a function that is robust to such efforts.

TECHNICAL SKILLS

Programming	C, C++, Python, R, Dart, MATLAB
Web Development	HTML/CSS, JavaScript/Node.js, Django
Database	MySQL, Pig
Software Packages	Hadoop, Solidworks, Google Cloud Platform, Flutter, TensorFlow, Scilab, OpenCV, Firebase

INDUSTRY KNOWLEDGE

Marketing, Finance, Sales, Business Growth, Team Leadership, Vision

EXTRA ACADEMIC ACTIVITIES

Regular participant of TopCoder, Hackerrank, and Codechef contests.
Created Light Controlled Robot for annual techfest of IPE VIZAG (techfest cancelled due to COVID19)
Participated in Sports Fest- Chess of IPE VIZAG during the freshman year (2019-2020).
Recipient of Excellence Award for designing working prototype of Scanning Tunneling Microscope By Bhilai Steel Plant Senior Secondary School Sector -10 (2018).
Recipient of Gaurav Memorial Award for outstanding contribution in Physics in Intermediate(+2) by Bhilai Steel Plant Senior Secondary School Sector -10 (2018).
Editor at Newsletter & Magazine Club of IPE Vizag.
Member of the organizing committee of Research Opportunities in Petroleum, Energy and Natural Gas- 2020, a four day International Workshop organized by IPE Vizag

REFEREES

Professor Rajat Jain

Department Incharge (Petroleum Engineering)

IIPE Vizag

Visakhapatnam, India

Phone: available on request

Email: available on request

Professor Ramanaidu Randhi

Assistant Professor

IIPE Vizag

Visakhapatnam, India

Phone: available on request

Email: available on request

Professor Ranjan Pramanik

Assistant Professor

IIPE Vizag

Visakhapatnam, India

Phone: Available on request

Email: available on request

Professor Laxmidhar Behera

Professor

IIT Kanpur

Kanpur, India

Phone: available on request

Email: available on request