

KSHITIJ SONI

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EDUCATION

Bachelor of Technology in Petroleum Engineering, 2019-2023, CPI – 8.25 (*after 4th semester*)

Indian Institute of Petroleum and Energy, Visakhapatnam

Chartered Secretary, 2019 - 2024

Institute of Company Secretaries of India, *Appearing for Executive Examination (Module I & II) in Dec 2021*

WORK EXPERIENCE

Research Associate, Indian Institute of Petroleum and Energy Visakhapatnam, *September 2020- Present*

The machine vision system can give an 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.

Research Intern, Indian Institute of Technology Kanpur, *April 2020 – June 2020*

Explored the extent to which the ADR assertive text segments can be classified from text-based data sources particularly social media sources and structured datasets. Exported NLP techniques to extract informative and portable features from text coming from different sources.

Outreach Intern, Expertshub Foundation, *Dec 2019 – April 2020*

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 across Andhra Pradesh & Telangana and Chhattisgarh regions to develop Innovation and Incubation Centres

PUBLICATIONS

1. Soni, K., & Saxena, R. (2021). Deep learning for detection of diabetic retinopathy. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, - under review
2. Soni, K., & Saxena, R. (2021). BrainNet: Automatic Brain Tumor Detection and Segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, - under review
3. Soni, K., Saxena, R., & Mandal, S. (2021): Debt Economies of Indian Unicorns. *Academy of Management Discoveries*, - under review

PROJECTS

Machine Learning Applications on crypto trading

This project includes a collection of miscellaneous python scripts for cryptocurrency investing, trading, and data analysis.

RSA Encryption – Decryption

C++ Implementation of threshold Cryptography and Application of this for RSA Encryption and Decryption.

Visual Cryptography

An implementation of various visual cryptography schemes, written in C++.

Online Examination System

AI proctored Online Examination System that saves lot of manual work and evaluates candidate through a fully automated system.

ADTrap: Adverse Drug Reaction Classification using NLP Tools and Deep Neural Networks

Investigate the performance of supervised classification approaches on data from social media to data from other more structured and unstructured sources for Adverse Drug Reaction Classification.

Speech Recognition System

Well optimised RNN Training system in which the system does not need hand design equipment's to model background noise, reverberation, or speaker, vibration, but instead directly learns a function that is robust to such efforts.

POSITION OF RESPONSIBILITY

Beta Microsoft Learn Student Ambassador: The Microsoft Learn Student Ambassadors community is for students—like you—who want to use tech to solve real-world problems with like-minded peers, establish themselves as mentors and leaders in their community, and amplify their impact.

Lead - Google Developers Student Club IPE Visakhapatnam: By joining a GDSC, students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and their community.

Editor at Newsletter Committee IPE Vizag: Newsletter Committee of IPE Vizag is an initiative of the IPE faculties and students to promote student engagement in extra-academic activities and to maintain an easy to access record of all the major events and achievements of IPE Vizag.

Member of Organising Committee of ReOPEN 2020: Research Opportunities in Petroleum Energy and Natural Gas – 2020 was a four-day international workshop organised by IPE Vizag.

Member of Technical Committee of IPE Vizag: Technical Committee of IPE Vizag aims to promote, organise, sponsor and mentor the events, workshops, conferences, seminars and related there majorly focusing on technical domain.

ACHIEVEMENTS

Recipient of **Facebook PyTorch Scholarship**.

Medihost India Private Limited secured position among **Top 10 Startups** in the GE Healthcare India Edison™ Accelerator - Cohort 3.

Kaggle Competition Master: Highest Rank 1085 out of 154213 active Kagglers.

Delivered a Talk - Making Smart Phone Selfies into Powerful Diagnostic Tools. (Feb 21, 2021). *K J Somaiya College of Engineering, Mumbai -400077, India.*