



PRANJAL GHILDIYAL

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 B.Tech-Final Year Petroleum Engineering
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EDUCATIONAL BACKGROUND

Degree/Exam	University/Institute	CPI/ %	YYYY
B.Tech (Petroleum Engineering)	Rajiv Gandhi Institute of Petroleum Technology, Jais	7.63* (till 5 th sem)	2018-Present
Intermediate/+2 (CBSE Board)	Shiv Jyoti Sr. Sec School, Kota	87.4%	2017
Matriculation (ICSE Board)	St. Joseph's Academy, Dehradun	91.5%	2015

INTERNSHIPS

- Name of Organization:** Oil and Natural Gas Corporation Limited (ONGC), Ahmedabad Asset.
Project Title: An overview of Surface Facilities *Period: 25th Aug'21-23rd Sept'21*
 - Developed deep insights into asset's surface facilities
- Name of Organization:** Oil and Natural Gas Corporation Limited (ONGC), Mehsana Asset
Project Title: EOR Screening, Cyclic Steam Stimulation, Steam Flooding, In-Situ Combustion, Hot water Flooding *Period: 19th July-18th Aug'21*
 - Assimilated knowledge of conventional EOR methods used in the asset
 - Interacted with various ONGC India professionals to develop insights into ONGC Mehsana asset

RESEARCH PROJECTS

- End-to-End connected neural network for seismic fault segmentation.**
 Neural Networks as a tool provide an excellent method to detect seismic faults under the Earth's surface. Faults can act as reservoirs. The model was an enhanced U-net which was trained on a synthetic dataset of a seismic section. Acquired an **accuracy of 89.21%** June 2020
- Optimizing the placement of wind turbines to maximize the annual energy production.**
 Implemented Genetic Algorithm, Particle Swarm, Simulated Annealing, Ant Colony and Localized Search. Going a step ahead, our team has also proposed a novel algorithm to optimize continuous, multimodal, high-dimensional problems. Some basic self-developed techniques have also been applied. The project was presented as in Shell.ai Hackathon,2020. August 2020
- Fabrication of thermal energy storage wraps sheets by phase behavior engineering of phase change materials via confinement effect.**
 Fabricated Phase change materials using three main components: PDMA, Steric Acid, THF. Their composition brought about a diverse set of properties which were later characterized. Aug 2019

SKILLS

- Programming Skills:** Deep Learning, Computer Vision, Python, C, SQL
- Software:** MATLAB, PostgreSQL, IHS Kingdom, Octave, Office Suite

AWARDS & ACHIEVEMENTS

- Achieved a rank of **142** globally in shell.ai hackathon. August'20.
- Appointed as **Secretary** of SEG RG IPT Student Chapter for academic session 2020-21. June' 20
- Appointed as the **Budget Manager** for the field trip grant worth **6500 USD** received by SEG RG IPT SC. June'21
- Qualified JEE Advanced 2018 being among top 1 percentile JEE Aspirants. May'18

EXTRACURRICULAR ACTIVITIES & CERTIFICATIONS

- Contributed towards the education and learning of underprivileged children under Gyan-Arpan Social Club for 2 years. 2018-20
- Geological field trip to Garhwal region of Dehradun-Mussoorie sector under the guidance of Dr. A.K. Azmi. Dec. 2019
- Completed a 12+ hours course- Deep Learning using Python offered by Lazy Programmer, Udemy August. 2021