Dhrupad Raghuveer Beti, PhD
EGI Data Science Post-Doctoral Fellow

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Research Interests

- Data Science
- Artificial intelligence
- Machine Learning
- Petroleum Geochemistry
- Petroleum Systems Analysis
- Source Rock Pyrolysis
- Interpretation

EGI Data Science Postdoctoral Fellow Dhrupad Raghuveer Beti came to EGI from KDMIPE (Keshava Deva Malaviya Institute of Petroleum Exploration) in ONGC (Oil and Natural Gas Corporation) Dehradun, India where he first received his training in Petroleum Geochemistry. His research work at EGI is focused on Data Science, Petroleum Geochemistry, Petroleum Systems Analysis, Source Rock Pyrolysis and Interpretation, QC/QA for HAWK™ data (Hydrocarbon Analysis with Kinetics), HAWK™ data processing for removal of bitumen or drilling fluid contamination, and accurate estimation of source rock maturity.

Dhrupad earned a Bachelor of Technology (B.Tech) in Chemical Engineering from Jawaharlal Nehru Technological University (India), a Masters in Petroleum Engineering, and Ph.D. in Chemical Engineering from the University of Utah. He is an active member of the Society of Petroleum Engineers.

In addition to English, Dhrupad speaks Hindi, Urdu, and Telugu.

Professional Expertise

Research involing using AI and ML algorithms to understand Gas-Oil Ratios, by using production data. Developing a suite of analytically methods and techniques to understand the API gravity, PVT properties, water saturation, hydrocarbon saturation, and porosity of the rocks while drilling the well; reduce risk by avoiding drilling in predicted unproven wells and increase the efficiency of drilling operations; and predicting the Bubble point in the reservoir. Developing a preliminary reservoir simulation software, by measuring the PVT properties and characterizing the reservoir at early drilling operations stage.

Certified in experimentation, maintenance, and analysis of source rock pyrolysis using HAWK™ (Hydrocarbon Analysis with Kinetics) instruments, Rock- Eval®, and SRA™.

Regional & Basin Experience

Atlantic Ocean

Papua New Guinea

Argentina and Colombia

West Australia

India

US shale plays

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