SAKET SRIVASTAVA

(405) 541-7837 | www.linkedin.com/in/saketsrivastavaOU | Saket.Srivastava-1@ou.edu

Education

PhD in Petroleum Engineering, University of Oklahoma, Norman, OK | GPA: 4.0 / 4.0 — Exp. May 2022
w/Graduate certification in Data Science and Analytics

MS in Petroleum Engineering, University of Oklahoma, Norman, OK | GPA: 3.9 / 4.0 — May 2018

BS in Mechanical with Energy Engineering in VIT University, India | GPA: 3.9 / 4.0 — May 2015

Research

Drilling Vibration Lab – Research Assistant (University of Oklahoma) — June 2018 – Present

- Characterize drilling vibrations through machine learning tools (Python – Scikit learn)
- Experimental testing, digitalization and torsional vibrations (stick-slip) model verification
- Build pre-processing pipelines for experimental data to develop downhole vibration severity classifier
- Field data analysis to recognize drilling dysfunctions and test mitigation steps experimentally

Internships

SCRAM Systems – Network Dev./Data Analyst Intern (Colorado) — June – August 2020

- Industry level experience in R, Python, Power BI and SQL
- Examine continuous monitoring data to brainstorm and develop business hypothesis
- Work with data repositories to create analysis models for reliability study of monitoring devices
- Build and analyze failure curves through time to event (Survival analysis) on monitoring devices
- Propose timely return merchandise authorization (RMA) of monitoring devices to optimize manufacturing expenditure costs and increase client satisfaction

Chesapeake Energy – Petrotech Field Intern (South Texas) — May – August 2019

- Undergo field rotations in drilling, completions, workover, facility maintenance and construction, flowback and production optimization
- Analyze Natural Gas Liquid (NGL) capture evaluation in conjunction with PVT impact on oil recovery
- Assess technical (Promax modeling) and economic feasibility of well-site NGL project

Shelf Drilling – Operations Office Intern (Mumbai) — May – August 2016

- Proposed and presented comparison techniques for rig performance for tender bidding purposes highlighting at least 11% faster commercial speed (m/month)
- Analyzed well operations for NPT and ILT
- Examined KPI's and introduced benchmarks to compare crew performance and downtimes

Publications

- "Characterizing Drilling Vibrations by Interlinking Surface Data, Drillstring Design and Lithology of Rock in Utah FORGE Deep Test Well 58-32", published at 45th Stanford Geothermal Workshop, Stanford, California. Co-author: Dr. Catalin Teodoriu (OU)
- "Development Of Next Level Drilling Simulator Using Multiple User Interaction Concepts" presented, published in OTC, 2018 in Houston, Texas. OTC-28966-MS. Co-authors: Adonis Ichim (Tenaris)
- "An extensive review of laboratory scaled experimental setups for studying drill string vibrations and the way forward" - Journal of Petroleum Science and Engineering, 106272.
- "Gas Well Conversion to Geothermal: A Case Study for Oklahoma" presented, published at 43rd Stanford Geothermal Workshop, Stanford, California. Co-author: Dr. Catalin Teodoriu (OU)

Leadership, Skills and Activities

- Coding: r, MATLAB, Simulink, SQL, AMPL & Python for big data optimization and analytics
- Experienced in industry software including ProMax, Well Plan, Landmark, PIPESIM and LabVIEW
- Lead OU in the prestigious Drillbotics 2017 (Stood 3rd in International Rankings)
- AADE 2020-21 (President)
- India Student Association (Treasurer)
- SPE Graduate Volunteer
- Photographer and travel enthusiast