

Data Scientist Needed: *Unconventional Reservoir Production Prediction*

Project Overview:

This project aims to develop a regression model predicting production performance in unconventional reservoirs. Utilizing a dataset containing geologic information (porosity, permeability, acoustic impedance, brittleness ratio, TOC, vitrinite reflectance), the model will analyze the impact of these variables on the productivity metric $A\sqrt{K}/\text{lateral ft}$ ($\text{md}^{1/2} \times \text{ft}$).

Responsibilities:

- Design and implement a robust regression model using provided geologic data.
- Analyze and interpret the model's predictions, particularly the impact of each variable on $A\sqrt{K}/\text{lateral ft}$.
- Identify & interpret key factors affecting production performance based on geologic parameters.
- Communicate findings and insights clearly and effectively to technical and non-technical audiences.

Qualifications:

- Proven experience in data science, including machine learning and statistical modeling.
- Solid understanding of regression modeling techniques and model evaluation metrics.
- Familiarity with reservoir engineering concepts and production metrics like $A\sqrt{K}$ and RTA.
- Strong analytical and problem-solving skills.
- Excellent communication and presentation skills.
- Experience with Python and related data science libraries (e.g., pandas, scikit-learn) is highly desirable.

Benefits:

- Contribute to a valuable project with significant impact on the energy industry.
- Gain experience in applying data science to solve real-world problems.
- Work in a flexible and collaborative environment with a supportive team.

Please submit a proposal outlining your approach to this project, including:

- Proposed methodology for model building and variable selection.
- Anticipated timeline, milestones, and deliverables.
- Rate structure and estimated project cost.

We encourage you to highlight any relevant experience and expertise in your proposal.

We look forward to hearing from you!