PEA
PETROLEUM ENGINEERS ASSOCIATION

18+ Hours of Practical Training on

Data Analytics and Machine Learning for Oil and Gas Using Microsoft Power BI

MR. NASHAT JUMAAH

11+ YEARS EXPERIENCE IN OIL AND GAS INDUSTRY

SCAN TO JOIN PEA COMMUNITY

REGISTRATION OPEN!

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Reach out to us at

+91 6205464268/
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ABOUT THIS TRAINING

Our intensive Power BI training for oil and gas professionals covers data visualization, analytics, and reporting to help you gain insights from complex datasets. Learn how to create dynamic dashboards, perform trend analysis, and optimize operations using Power BI's powerful features. Enhance your decision-making skills and drive better outcomes in the oil and gas industry with our hands-on training.

This training is designed by oil and gas professional for professionals likewise, where real oil and gas data sets are used for training with diversity in data sets.

SKILLS GAINED

- Get started with Power BI from zero to here.
- Learn Basics of Trend analysis.
- Data Manipulation and Filtering.
- Data Analysis Expressions.
- Work with multi data source projects
- Create Engaging Visualizations.
- Create KPI Dashboard for Oil and Gas Field Operations.
- Understand basic Machine Learning Algorithms
- Implement Machine Learning in Power BI Desktop

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AUDIENCE

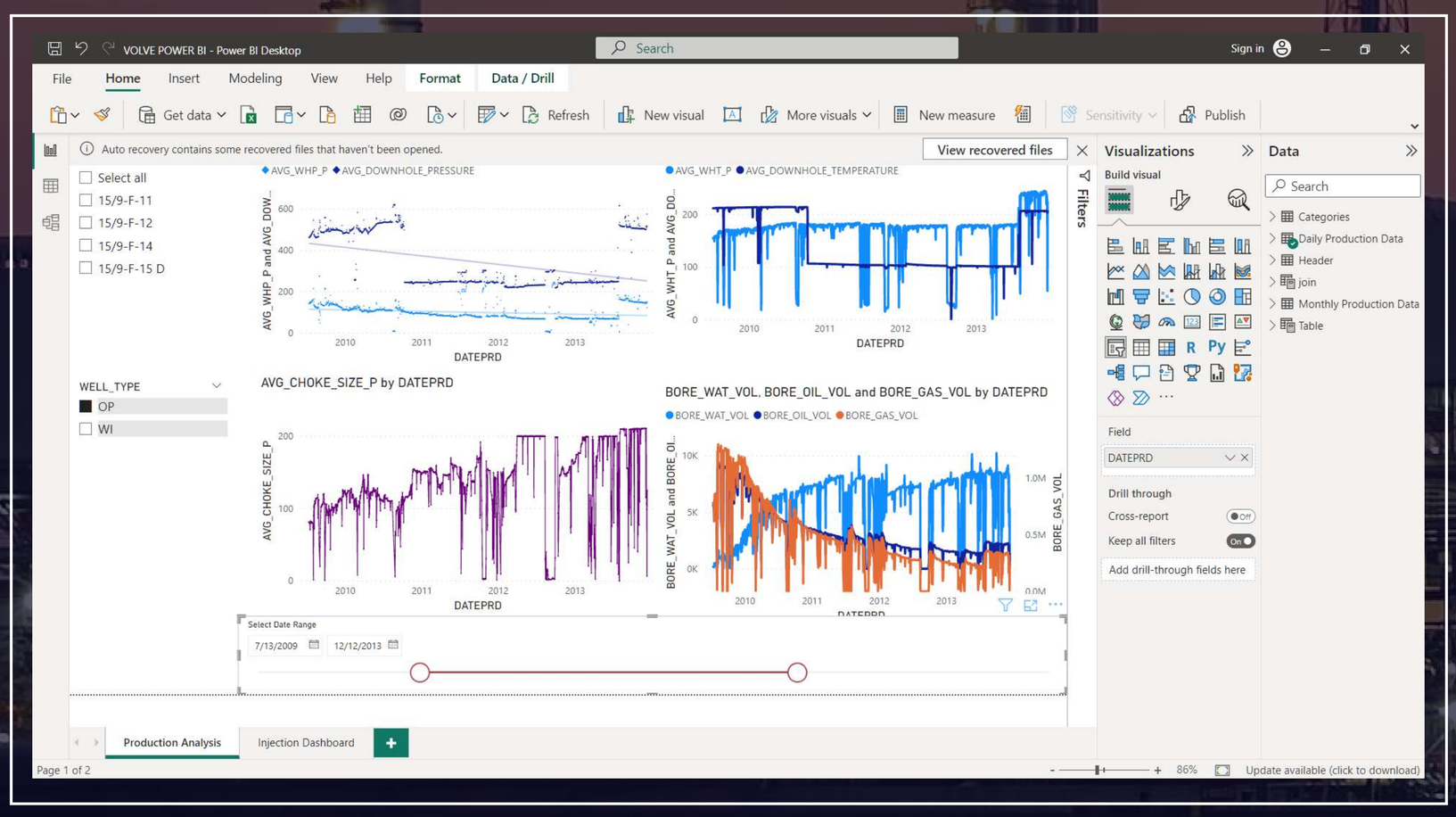
- Reservoir Engineers.
- Production engineers.
- Chemical engineers.
- Drilling engineers.
- Geologists and petrophysics
- AL and workover engineers.
- Undergraduate students.

PREREQUISITES

- No knowledge is required.
- A working laptop with Windows OS.

WHAT YOU WILL GET FROM JOINING

- Access to Video Recordings on daily basis.
- Study materials ppt, pdf
- Oil and Gas Datasets(x4).
- Power BI



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MODULE 1

- Introduction to Power BI
- PowerBI working Enviroments.
- Introduction to Basics of Power BI
- Basics of Data Loading and Data View
- Simple Plotting In Power BI

MODULE 2

- Line and Scatter Plots.
- Creating Trends for Scatter Plots.
- Formatting Plots and Visuals
- Introduction to Filtering
- Multi Criteria Filtering（By Well, Reservoir, Operator）
- Simple Oil and Gas Field XY Mapping

MODULE 3

- Basics of Data Modeling Theory
- Relationships between oil and gas data
- Working With Multisource data.
- Data Manipulation and Transformation.
- Advanced Data Loading.
- Data View and Calculated Columns

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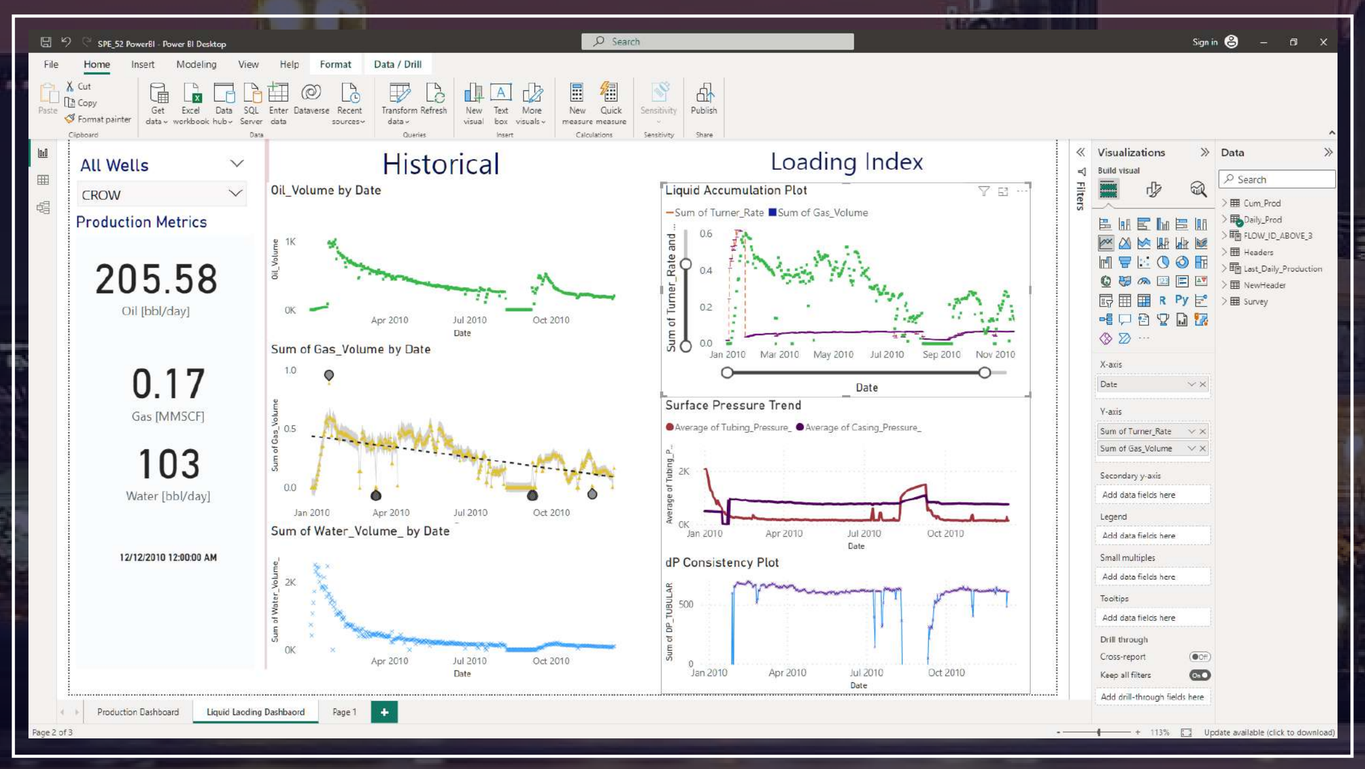
MODULE 4

- Cross Filtering.
- Creating Interactive Dashboards.
- Enhancing UX through advanced Formating Visuals and Tools
- Introduction to bars, stacked bars.
- Heat map.
- Creating KPI metrics and Gauges for oil Field Parameters.

MODULE 5

- Introduction to Python for Power BI
- Integrating Power BI and Python
- Python Visuals in Power BI
- Creating Python Analytics in Power BI
- Working with Pandas Tables
- Working with Matplotlib
- Introduction to Machine Learning Algorithims



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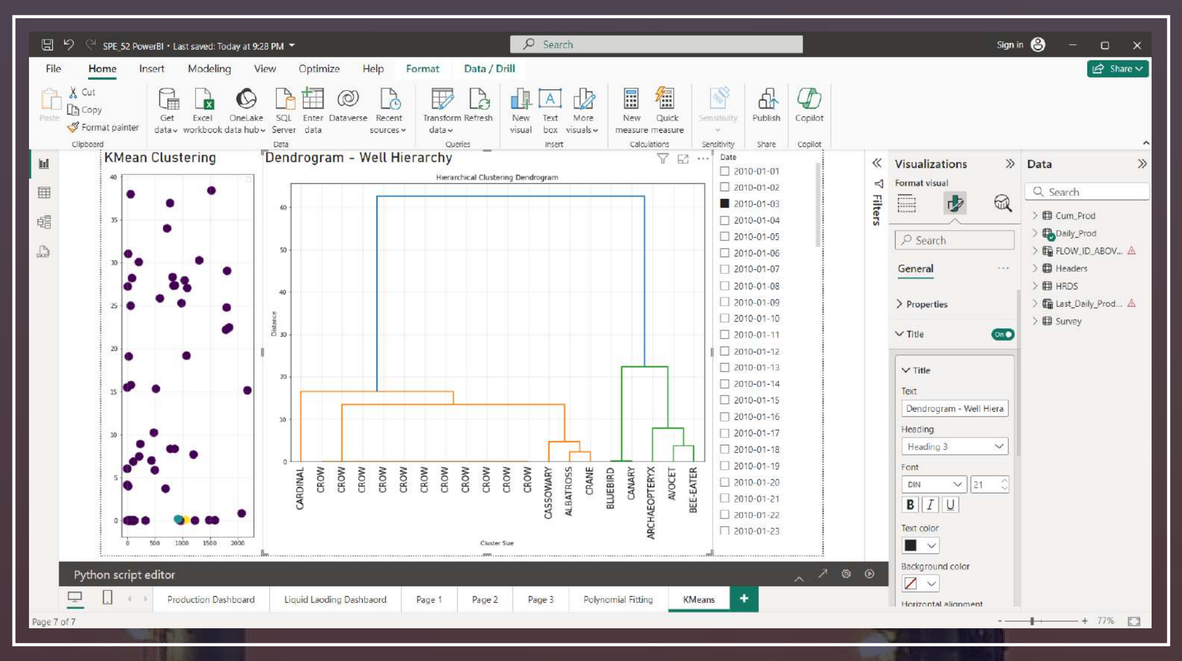
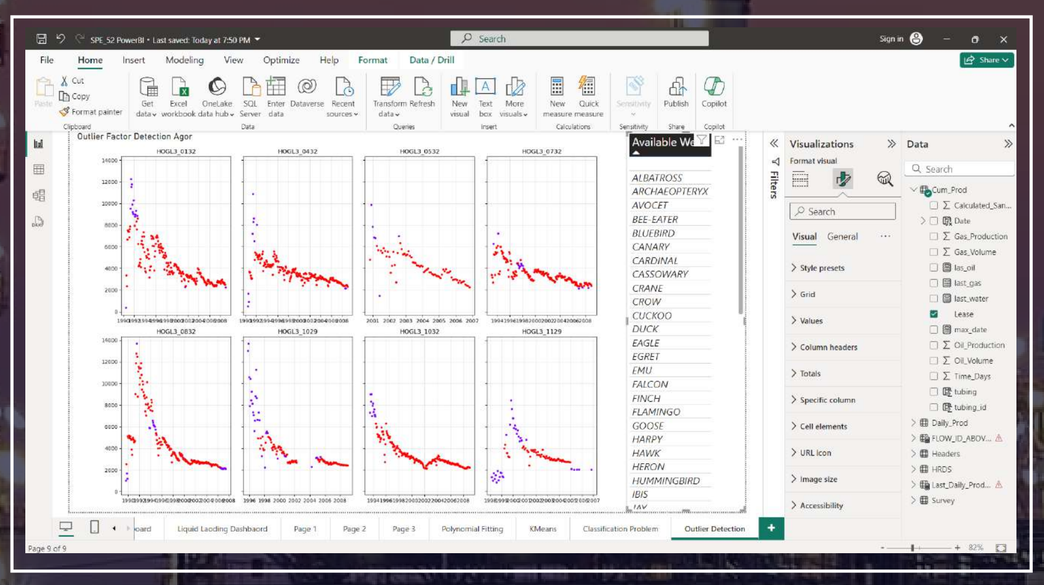
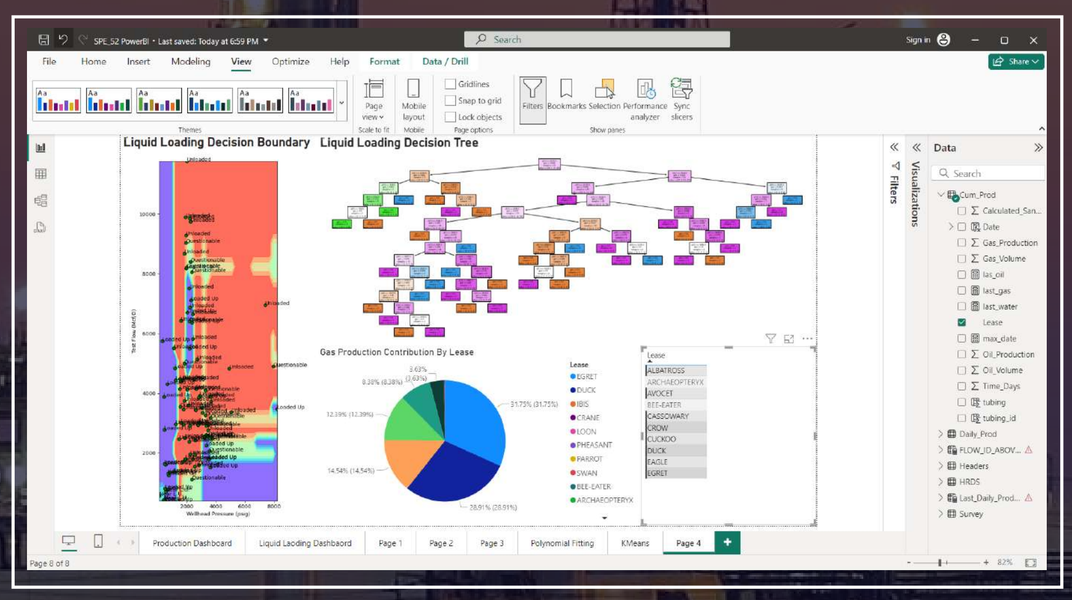
MODULE 6

- Introduction to Anomaly Detection
- Implementing Anomaly Detection in Power BI
- Introduction to Tree Based Modeling
- Introduction to Classification
- Implantation of Classification of Oil and Gas assets in Power BI
- Introduction to KMeans and Hierarchal Clustering
- Clustering Wells based on Production KPIs







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