Valorem Reply – Digital Insights

DATA IN ACTION

Strategic Insights through Advanced Analytics
VALOREM REPLY – DATA & ANALYTICS

PLATFORM
Data Engineering, Analytics
Modernization Architecture

Modern Data Platform Workshop
Architecture, Strategy, Planning
Data Governance, Compliance, Security
Data Platform Modernization, Development, Support and DevOps
Big Data
Cloud BI/BW
Modern Workplace Insights

AI
AI, IoT
Data Science, Advanced Analytics

Azure Machine Learning
Predictive Analytics
Cognitive Services
Data Strategy
Big Data
IoT Edge
Azure Databricks

EXPERIENCE
Immersive Visualization, User-Centric Design

Data Visualization
User Experience
Report Migration
PowerApps / Flow
Training
Geospatial
Analytics As A Service
AI & DATA SCIENCE @ VALOREM REPLY

**MACHINE LEARNING**
- Deep Learning
- Predictive Models
- Pattern Recognition
- Classification & Regression

**COGNITIVE COMPUTING**
- Chatbots
- Text to Speech
- Voice to Text
- Computer Vision

**CLOUD & BIG DATA**
- Databricks
- Cortana
- Azure HDInsight's
- Azure Search

**DOMAIN EXPERTISE**
- Customer Analytics
- Supply Chain Analytics
- HR Analytics
- Manufacturing
- Network Optimization

**TEXT ANALYTICS**
- Text classification
- Trend Analysis
- Sentimental Analytics
- Network Analysis

**WORKSHOP**
- Digital Insights
- Spark/ Databricks
- AI Readiness
- IOT
- Advanced
- Visualization

**TOOLKIT**
- Microsoft Cognitive Toolkit
- Apache Spark
- Databricks
- Azure IoT Hub
- Azure ML
- Azure HDInsight's
- Azure Search
- Apache Kafka
- KNIME
- Fathom
- Python
- R
- H2O.ai
- Theano
- Tableau
- GitHub
- PyTorch
- Azure
**DATA IN ACTION – PROCESS EXAMPLE**

**Step 1**
Start with Q&A

- Day 1: Primer on advanced analytics and modernized analytics platform; assess current business strategies
  - Understand business imperatives
  - Understand current analytics capability
  - Understand current business landscape and capabilities
  - Identify required business stakeholders

- Day 2: Understand data and develop hypothesis
  - Understand required data sources
  - Develop high level future data storage strategy
  - Identify potential initial hypothesis
  - Define success and exit criteria
  - Planning, next steps, timeline

**Step 2**
Perform an iterative Pilot Project

- Data Understanding
  - Hypothesis 1
    - Run Model
    - Evaluate Model
    - Run Model
    - Evaluate Results
    - Iterate and refine blasts

- Data Preparation
  - Additional Algorithm(s)
    - Run Model
    - Evaluate Model
    - Run Model
    - Evaluate Results
    - Iterate and refine blasts

- Evaluate Future ROI
- Operationalize Model