Amanda L. White, P.Eng

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DATA SCIENCE / ENGINEER

Transitioning from Reservoir Engineering to Data Science brings the following strengths:
- Documentation, communication, teamwork
- Presentation of ideas to multiple audiences (managers, team, non-technical,multi-level team)
- Project management
  - Management of budget, schedules, conflicting priorities to effectively deliver product
  - Risk assessment
- Data analysis
  - Empirical tool use
  - Effective analysis with limited or missing data sets
  - Utilization of large data from multiple different databases
- Development of methodologies for repeating problem types
- Independence and team orientation
- Appreciation for variety and collaboration on projects to add value to an organization

PROFESSIONAL EXPERIENCE

Career track in Reservoir Engineering to Data Science brings the following transferable experience:

Project management
- Managed a 6 person team that increased drilling inventory by 50 locations through the use of multi-scenario planning to evaluate most efficient plan to meet corporate goals
- Conducted economic evaluation of drilling, facility, and Enhanced Oil Recovery projects for potential acquisition and capital expenditure

Data analysis
- Completed economic evaluations for non-operated drilling participation with limited offset data, typically with less than 1 month turn around for approximately 10 wells per month
- Used data and production information to analyze trends in offset well performance to predict how new wells would perform
- Mastered varied computer programs quickly and efficiently to get data in correct and useful format

Documentation, communication, teamwork
- Championed within 20 person user group a roll out of new in-house production forecast software to improve efficiency by 70%
- Lead multi-disciplinary team to add value in organizations through technical evaluation of properties ranging from idea stages to full implementation and optimization stages
- Amended 15+ waterflood approvals and increased injection rates on 20+ wells to bring an oil field back into compliance with the Regulatory Compliance board
- Created annual SEC required documentation for reserve reports on 1000+ producing wells
- Direct supervisor, project lead throughout career
- Mentored managers [4] and junior staff [6] in technical skills, evaluation methods and interpretation of economics parameters

EDUCATION / DEVELOPMENT

Bachelor of Engineering: Mining - University of Alberta
APEGGA – Professional Engineer since 2001
Active Leadership, 2012
Python Bootcamp - Udemy, 2020
Data Science / Machine Learning Bootcamp - Udemy, 2020
Fundamentals of Deep Learning certificate - Nvidia, 2020

SKILLS

- Oil Field Manager (OFM), IHS Harmony, RTA, Merak PEEP, EnerSight, DTrio decision space, ValueNavigator, AFE Navigator, AccuMap, GeoScout, Mosaic, StudioSL/StreamSim numerical modeling, SAP
- Microsoft Office program: Excel, Outlook, Project, Powerpoint, Access
- Python, MatPlotLib, NumPy, SciKit-Learn, DIGITS, Caffe

WORK HISTORY

Reservoir Engineer Advisor, Occidental Petroleum, Houston , TX	08/2014-01/2020
Senior Waterflood Exploitation Engineer, PennWest Exploration, Calgary , AB	05/2011-05/2014
Reservoir Engineer, Hunt Oil Company of Canada, Calgary, AB	04/2008-02/2011
Senior Exploitation Engineer, Harvest Energy Trust, Calgary, AB	08/2006-09/2007
Senior Exploitation Engineer, Husky Energy, Calgary, AB	08/2001-07/2006