

Abhishek Patria

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SUMMARY

MS Analytics candidate with 4 years of experience across Data Science, Simulation & Strategy – have worked as a team leader as well as an individual contributor. Actively seeking Data Science positions to drive business & product impact.

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Analytics - Computational Data Analytics - GPA: 3.8/4.0

Aug 2019 – May 2020

Coursework: Machine Learning, Natural Language Processing, Data & Visual Analytics, Regression Analysis, Optimization

Graduate Teaching Assistant: Introduction to Business for Analytics - MGT 8803

Birla Institute of Technology and Science

Pilani, India

Bachelor of Engineering in Chemical Engineering - GPA: 8.37/10.00

Aug 2011 – Jul 2015

Coursework: Numerical Methods, Linear Algebra, Differential Equations, Probability, Statistics, Product & Brand Management

SKILLS

Programming: Python, R, SQL, Hadoop, HBase, Hive, Spark, AWS, JavaScript, L^AT_EX, VBA | **Visualization:** Tableau, Gephi, D3

Modeling: Regression, SVM, Decision Trees, Neural Networks, KNN, ARIMA, CUSUM, Linear Programming, A/B Testing, PCA

EXPERIENCE

Oil & Natural Gas Corporation (India's largest National Oil Company & a Fortune 500 firm)

Ahmedabad, India

Data Scientist/Strategy Executive: Data Analytics Group, Oilfield Development Group

Nov 2015 – Aug 2019

- Built and led a team of 4 by persuading multiple senior directors to pioneer the practice of Data Analytics in the firm & developed its growth plan
- Engaged & supervised industry leaders for PoC projects to establish the value proposition of analytics for the firm
- Developed multiple models using Machine Learning algorithms for prediction of Thermodynamic Properties of fluids for multiple reservoirs with an accuracy of 80%
- Devised & implemented first in-house Machine Learning model with a predictive power of 90% to determine Minimum Miscibility Pressure for different crude oil grades for Enhanced Oil Recovery screening
- Prepared Field Development Plan for reviving a major mature oil field through focus on new technology induction
- Built a prescriptive model for hydrofracturing design & drilling optimization resulting in reserve accretion worth \$25MM
- Prepared contract worth \$10MM for procuring speciality technology services from an oilfield service major
- Created Tableau & Excel dashboards to monitor multiple reservoir assets thereby saving 20 man-hours per week
- Reduced dependence on 3rd party software by implementing solutions for geological & production mapping using R
- Designed an algorithm for generating temperature profile of an oil reservoir to optimize oil production
- Provided technical consultancy to international clients for Thermal Enhanced Oil Recovery methods

J. P. Morgan Chase

Mumbai, India

Investment Banking Analyst

Jul 2014 – Dec 2014

- Developed a reconciliation system for EMEA [Europe, Middle East, & Africa] region trades ranging from \$100k to \$1MM
- Established procedures to standardize trade reporting spanning multiple asset classes in compliance with European Securities & Markets Authority [ESMA] thereby minimizing trade breaks
- Saved 15 man-hours per week by automating the data processing pipeline using VBA and SQL

PROJECTS

Scalable Neighbor-based Online Textbook Recommendation Application - (SNOTRA)

- Built a hybrid model by leveraging strengths of content based and collaborative filtering techniques to provide realtime personalized book recommendations using Goodreads book data
- Predicted the rating that a user would give to a new book using KNN algorithm weighted by Cosine Similarity Index
- Identified similar books by calculating Similarity Index using Count Vectorization and TFIDF Vectorization on book summaries
- Developed web application using Flask & D3 to display forced layout graph between similar users & books

Facebook Comments Prediction

- Explored linear & ensemble models to predict the number of comments an FB post would get within certain time after posting
- Used RMSE for comparison amongst Lasso Poisson, Stepwise Poisson, PCA Poisson and Random Forests Regression models

Amul Dairy (Cooperative brand jointly owned by 3.6 MM milk producers) - Pro Bono

Anand, India

- Used Critical Path Method in milk powder packaging unit to shorten the slack & ensure completion of activity within stipulated working hours, without incurring overtime

LEADERSHIP, AWARDS, TALKS & CERTIFICATIONS

Guest Lecture & Workshop: Conducted guest lectures & workshops on applied Data Science in engineering sector for IEEE Chapter - Pandit Deendayal Petroleum University, Gandhinagar with over 100+ participants

Ranking: Secured All India Rank of 171 (99th percentile) in Graduate Aptitude Test in Engineering (GATE)

Mentoring: Mentored undergraduate students for reservoir simulation projects through 8 week long STEM internship program

Certifications: Data Analyst Nanodegree, Udacity | Machine Learning, Coursera - Stanford | Applied Petroleum Reservoir Engineering - Ronald E. Terry, Udemy | Competency Development for Reservoir Engineers - IIT Dhanbad