Samuel A. Rogers

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**PROFESSIONAL SUMMARY**

Data Scientist with 2+ years of experience interpreting oil & gas economic data, data-wrangling, and calculating predictions to support intelligent business decisions using Big Data platforms. Proven results in project management, machine learning, pattern recognition, text mining, ETL and database management.

**EDUCATION**

**M.S. in Applied Data Science**, Syracuse University, Syracuse, NY, September 2020 GPA: 3.96/4.00

**B.S. in Petroleum Engineering**, University of Oklahoma, Norman, OK, December 2018­­­­

* Minor: Geographic Information Systems

**TECHNICAL SKILLS**

**Data Science Tools**: Python, R, Power BI, Tableau, Hive, Spark

**Data Engineering Tools**: SQL, MongoDB, Azure, Hadoop, MapReduce, Hive, Pig, Sqoop

**DATA SCIENCE DEVELOPMENTS**

* **Object Recognition with Artificial Neural Networks** (September 2020): Categorized images of clothing using Multilayer Perceptron (MLP ANN), Random Forest, & Naïve Bayes with 89% accuracy.
* **Real Estate Time-Series ROI** (August 2020): Performed Prophet time-series analysis over the nation’s median home value per zip-code.
* **Oil & Gas Well Initial Production Prediction** (February 2020): Predicted well’s initial production (IP) at county level. Derived well attributes from 3 local and cloud SQL databases then GBM, Random Forest, K-Means, SVM, and Naïve Bayes algorithms in R to predict IP.
* **Fraud Detection and Analysis** (December 2019) Audited distribution chain for employee retail theft, corruption schemes, Zapper fraud, and promotion effectiveness per store.
* **Correlative & Predictive US Health Stats** (September 2019): Correlated high-risk health behaviors with premature death. Regression analysis showed statistically significant F, p-value and adjusted r2.
* **Call Log Database** (June 2019): Designed and implemented Azure SQL Database for analysis and management of company relations. Unified customer contact info and call details utilizing Power BI.
* **Oil and Gas Well Ownership App** (May 2019): Led team-based project to normalize index data from previously siloed Azure SQL and Access databases; promoted data transparency & accessibility company wide.

**PROFESSIONAL EXPERIENCE**

**Data Scientist**│**Reservoir Engineer**, Cosmo Energy LLC, Oklahoma City, OKSept 2017-Nov 2019

* Designed and implemented Revenue and JIB Data Pipeline and Processing project for 900 wells, 4100 net mineral acres using web scraping software, Optical Character Recognition (OCR), Python HTML parsing, and SQL.
* Predicted future oil and gas production using a decline curve analysis. Routinely evaluated acquisition packages up to $4 million, highlighting key values, confidence intervals, and expected ROI.
* Increased Sigma Quality Level from 3.0 to 3.5, established process control over crucial data acquisition node. Implemented strict process constraints and neutralized costly attributes.
* Developed and analyzed Joint Interest Billings database for 800 + records, providing clear expectation of expenses; developed more accurate net revenue predictions for acquisitions.
* Automated daily map of oil & gas activity using raw data streams. Wrote script Python to extract data from public sources, filter based on release date and category, then projected based on spatial relevance of investments.

**Engineering Intern**, Containment Solutions (acquired by NOV), Tulsa, OK Jun 2017-Jan 2018

* Coordinated a team to redesign inventory layout and scheduling to optimize the manufacturing process, increasing production by 12% and $2000 in monthly savings. Ultimately ensured timely and complete product delivery.
* Synthesized database corporation-wide, eliminating duplicate and mislabeled products. Resulting database clarified production orders and inventory confusion.

**COMMUNITY SERVICE EXPERIENCE**

**Data Against Covid-19,** Twitter NLP Analysis Mar 2020-Current

* Utilizing 140 million tweets for sentiment & relation analysis via SVM, Naïve Bayes, LDA, & K-Means Clustering.