

John P Boudreaux

Applications-driven data scientist with a focus on being impactful via analytics, causality analysis, and ML

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SKILLS

- **Software/Languages:** R (caret, dplyr, shiny, ggplot2), Python (numpy, pandas, sklearn, matplotlib, dash, seaborn, tensorflow, keras, flask), SQL, D3, VBA, JMP, Minitab, MATLAB, PowerBI, Tableau, HTML/CSS
- **Frameworks:** MS Azure, Google Cloud, AWS, HDFS, Hive, PySpark, Kafka, Git, Docker, Kubernetes
- **Data Science:** data pipelines, supervised + unsupervised machine learning, statistical analysis, visualization, dashboarding, optimization, web scraping, experiment design and analysis, A/B testing, solution scoping and development, computer vision, time series
- **Additional skills/experience:** communication to business stakeholders, direct customer experience, marketing and manufacturing experience, mentoring and teaching junior DS talent

EXPERIENCE

Data Scientist, BASF, Florham Park NJ + Houston TX **February 2017 – Present**

- Lead data science and engineering efforts for a new software product, core to new business strategy. Used Python + SQL stack (SQL Server, Dash/Flask, Sklearn, Plotly), estimated benefits > \$200K
- Interface with stakeholders to scope manufacturing problems as data science products and projects
- Develop solutions and products for scoped use cases, with multiple >\$500K estimated benefits
- Optimize plant models to find ideal operating conditions based on trained ML models
- Design and run experiments (A/B tests) to quantify benefits of operational strategies
- Co-develop packages in R and Python for using difficult internal data sources internally
- Coordinate collaboration efforts in machine learning and optimization/operations research topics
- Develop internal data science talent via trainings and managing recent graduates in rotational program
- Co-developed a lightweight application to foster casual collisions after going virtual for Covid-19

Market Specialist PDP, BASF, Houston TX **May 2016 – February 2017**

- Created and rolled out complete market mapping tool using MS Access and Excel VBA enabled systems, and provided training to both sales and marketing teams to show full capabilities
- Developed cost benchmarking document to assess cost position relative to competitors in market
- Created file to produce price-volume curves on demand for customer pricing analysis

Quality Engineering PDP, BASF, Wyandotte MI **September 2015 – May 2016**

- Led LSS Green Belt Project to reduce defects through Analyze phase with target of \$50K savings annually
- Supervised production trials to test changes in formulations
- Performed Gage R&R studies to analyze capability of prepolymer measuring device
- Collected and reported oven temperature performance to monitor maintenance improvements

Production Engineering PDP Intern, BASF, Geismar LA **May 2014 – August 2014**

- Expanded utilities information capabilities in 10 different plants by creating Aspen Process Explorer graphics system
- Led daily production team meetings to provide updates on plant operating status
- Presented production data at daily meetings and followed issues as necessary
- Researched, commissioned micro scale experimentation, and presented recommendations for brine squeeze project implementation

EDUCATION

The University of California, Berkeley
Master of Information and Data Science

Graduation: August 2020

The University of Texas at Austin
Bachelor of Science: Chemical Engineering
Business Foundations Certificate

Graduation: May 2015