

# STACEY BRANDSMA

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## Skills

Languages: Python, R, SQL, Bash/Zsh, Git, Matlab, CSS, HTML  
Methodologies: Machine Learning, Natural Language Processing, Image Analysis, Deep Learning, Big Data Analytics, Simulation, Bayesian Statistics, Business Analytics  
Data Engineering: AWS, Azure, Kedro, Docker, Spark, Hadoop, Hive, OpenShift, ETL, Teradata  
Visualization Tools: Tableau, R-Shiny, D3, PowerBi  
Collaboration: Agile, Code Reviews, Pair Programming, Knowledge Sharing, Technical Presentations, Scrum, Software Testing, Jira, Confluence, Product Development  
Areas of Expertise: Biotech, Health Care, Epidemiology, Pharma, Program Management, Research, DevOps

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## Professional Experience

07/2021–present **Data Scientist, Amgen, United States.**  
- Helped develop and improve a machine learning pipeline for clinical trial optimization and site selection  
- Advised business partners on expansion and roll out of production model for Osteoporosis detection to hospitals

03/2021–07/2021 **Data Scientist 2, Parsyl, United States.**  
- Built production model for predicting location of facility using IOT devices.  
- Building algorithm for predicting shelf life lost for muscle meat products in the cold chain

04/2020–03/2021 **Data Scientist, HCA Healthcare, United States.**  
- Modelled ICU capacity, COVID-19 hospitalizations, & hospital health status.  
- Built pipeline for calculating regional COVID-19  $R_t$  values.  
- Developed a 30 day readmission classifier model for patients.  
- Built and deployed predictive models for cost of hospital visit for a patient.  
- Award: for outstanding work during COVID-19 pandemic

06/2018–04/2020 **Data Science Intern, Johnson & Johnson, United States.**  
- Modelled and visualized anomalous orders for controlled pharmaceuticals  
- Digital product is in production and utilized daily by the controlled substance compliance team  
- Built R-Shiny application to communicate complex analytical analysis to stakeholders  
- Modelled and predicted promotion timing and efficacy for seasonal consumer products  
- Facilitated monthly data science training for business technology leaders  
- Awards: six internal leadership and recognition awards

09/2014–10/2017 **Monitoring and Evaluation Officer, Mennonite Central Committee, Zambia.**  
- Applied statistical procedures to data for evaluating programs and maintaining indicator statistics  
- Managed 17 different projects and corresponding monitoring strategies and evaluations  
- Developed project proposals and budgets in gender, education, health, and food security  
- Designed and supported indicator reporting tools and managed databases  
- Disseminated results, practices, and methodologies to non-technical audiences

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## Education

09/2020–present **Master of Science in Computer Science, Georgia Tech, GPA: 4.0.**  
- Deep Learning, Big Data for Healthcare, AI Ethics, Bayesian Statistics, Human Computer Interaction

09/2018–05/2020 **Master of Science in Analytics, Georgia Tech, GPA: 4.0.**  
- Machine Learning, Simulation, Visual Analytics, High Dimensional Data, Regression Analysis

01/2017–01/2018 **Micro-Masters in Data, Economics, and Development Policy, MIT.**  
- Data Analysis, Economics, Experimental Design, and Policy Analysis

08/2008–04/2013 **Bachelor of Science (Honors) in Biology, Kings University, GPA: 3.4.**  
- Laurence Decore Student Leadership Award and Certificate in Development Studies  
- Elected Vice President of Students' Association