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stacey-brandsma/
staceybrandsma

STACEY BRANDSMA

Skills

Programming:	Python, R, SQL, Bash/Zsh, Git, Spark
Methodologies:	Machine Learning, Natural Language Processing, Image Analysis, Deep Learning, Big Data Analytics, Simulation, Bayesian Statistics, Business Analytics
Engineering:	AWS, Databricks, Kedro, Docker
Visualization:	Tableau, R-Shiny, Dash, PowerBi
Collaboration:	Ideation and Project Development, Agile, Code Reviews, Pair Programming, Knowledge Sharing, Technical Presentations, Scrum, Software Testing, Jira, Confluence
Areas of Expertise:	Digital Health, Public Health, Epidemiology, Program Management, Biomedical Informatics

Education

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

09/2018–05/2020 **Master of Science in Analytics**, *Georgia Tech*, *GPA: 4.0*.
- Machine Learning, Simulation, Data and Visual Analytics, Business Data Analytics, Introduction to Modelling, Introduction to Computing, 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

01/2017-01/2018 **MOOCs in Data and Biomedical Sciences**, *Coursera*.
- Data Science:
  - Practical Data Science, Machine Learning Engineering in Production, Deep Learning, Advanced Computer Vision, Data Analysis, Learning How to Learn, Natural Language Processing
- Biomedical Sciences:
  - Bioinformatics, Cancer Biology, AI for Medicine, Drug Discovery, Drug Development, and Drug Commercialization
- Public Health:
  - Public Health Practice, Global Disease Masterclass, Epidemiology, Statistics for Public Health, Infectious Disease Modelling, Digital Health

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

Professional Experience

07/2021–present **Data Scientist**, *Amgen*, United States.

- Led project to develop competitive intelligence for executives by building models for news summarization and question/answering, topic modelling, and financial forecasting
  - Held numerous roles including Product Owner, Technical and Team Lead, Developer
  - Work has been recognized by CFO, CIO, VPs, and Directors across Amgen
- Data Science Engagement Lead for Digital Health in key pipeline products such as obesity and small-cell lung cancer.
  - Led ideation process to develop use cases for data science in obesity trials
  - Building use cases into proof of concepts
  - Evaluating digital health products for improving retention and data collection in a trial setting
- Vice Chair of organizing committee for annual Data Science Symposium at Amgen
  - Secured external keynote speaker, moderated fireside and panel discussions
  - Facilitated event for approximately 400 Amgen employees
- Evaluated data vendors for potential use in improving clinical trial diversity
- 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
- A leader and facilitator of the CFO Mentoring program
  - Automated and improved the mentor matching process, saving hundreds of work hours
- Mentor and Manager of junior Data Scientists

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 Co-Op**, *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