

Brandon Rao

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EXPERIENCE

• TD Bank

Toronto, ON

Data Scientist II

May 2025 – Present

- **Model Governance:** Owned the end-to-end approval workflow for third-party models, securing complete documentation and performance evidence from vendors and accelerating review readiness for Model Risk.
- **Model Monitoring:** Developed and automated monitoring plans for production models, delivering recurring reports on **AUC, PSI, Precision, Recall**, and drift metrics to ensure regulatory and performance compliance.
- **Code Migration to Cloud:** Led the migration of legacy on-prem SQL and Python workflows to **Databricks**, refactoring pipelines for scalability, reproducibility, and alignment with cloud engineering standards.
- **Model Review Facilitation:** Acted as the primary liaison for Model Validation and vendors, resolving documentation and testing gaps to move models efficiently through the review and approval pipeline.

Data Science Training Specialist

Dec 2021 – May 2025

- **Databricks Training:** Facilitated training of over **1800** colleagues in Databricks through hosting live training courses and hands-on workshops. In-depth experience with in-person or virtual public speaking.
- **Enterprise Standards:** Creator of centralized documentation website for our data platform, which has been accessed by over **4,600 unique users** and over **3,500** monthly interactions, growing rapidly MoM.
- **Tableau and Power BI Expertise:** Contributing member of the enterprise Tableau and Power BI hands-on training programs to improve data visualization skills of colleagues. Subject Matter Expert for related inquiries.
- **Cloud Training and Expertise:** Developed and implemented key training material on Cloud tooling such as Azure Synapse, Databricks, and Tableau best practices through monthly webinars or technical documentation.
- **Leadership:** Led the DILO (Day In the Life Of) initiative to improve team productivity and collaboration.

Data Analytics and Reporting Intern

Sep 2020 – Dec 2021

- **Ecosystem Reporting:** Developed a Tableau dashboard providing usage insights for a Hadoop ecosystem with over **1,200 members** to improve data-driven decision making.
- **End-User Engagement:** Delivered technical training webinars around big data tools (Oozie & Git / Bitbucket) for **150+ data driven colleagues** through regular training sessions scheduled monthly.
- **Data Preprocessing:** Built well documented and automated Python / PySpark scripts to collect, clean and transfer data to be used in Tableau workbooks. Technical SME on Big Data implementations in Tableau.

PROJECTS

- **UFC Fight Classification Model & Blog:** (Python, Jupyter NB) - A classification project to clean UFC fight data and predict the winner using a Random Forest model with cross-validation. Complete blog & analysis included.
- **Disaster Response NLP Pipeline:** (Python, Flask) - Natural Language Processing model that categorizes messages for disaster response by implementing an end-to-end NLP pipeline & companion Flask application.
- **Stack Overflow Survey Analysis & Blog:** (Python, Jupyter NB) - A complete Data Science project and analysis of Stack Overflow Survey findings from the 2024 Stack Overflow Developer Survey with an accompanying blog post.

TECHNOLOGIES

- **Languages:** Python (PySpark), R, SQL
- **Data Science:** Jupyter, Pandas, NumPy, SciPy, Scikit-Learn
- **Visualization:** Tableau, Power BI, Matplotlib, Seaborn
- **Big Data:** Spark, Hadoop, Hive, Impala
- **Cloud:** Microsoft Azure, Databricks
- **Version Control:** Git, GitHub, Bitbucket

EDUCATION

• University of Toronto

Toronto, ON

HBSc. Mathematics and Statistics

Sep 2016 – Dec 2021

- **Relevant Coursework:** Regression Analysis, Data Collection, Statistical Inference, Categorical Data Analysis
- **Certifications:** Udacity Certified Data Scientist, Azure Fundamentals, Databricks Lakehouse Fundamentals, Certified Databricks Data Engineer Associate