ALLISTAIR COTA

DATA SCIENTIST

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EXPERIENCE

Teaching Assistant, Data Science (Contract) | BrainStation

JAN 2022 - APR 2022, TORONTO, ON

- Supported education team in delivering online course content by leading tutorials, grading coursework, and providing detailed feedback and 1-on-1 support to students.
- Led morning kickoffs to review class content including SQL, Tableau, Python, R, statistics, machine learning, AWS, Hadoop, and Spark.
- Collaborated with instructors and fellow teaching assistants to develop new course content related to interpreting black box model predictions using an Agile framework.

Mechanical Design Engineer | Husky Injection Molding Systems

AUG 2017 - AUG 2021, BOLTON, ON

- Led engineering tasks for cost reduction initiatives amounting to $200k annual savings.
- Extracted insights from simulation and testing data to develop design guidelines for deployment to Standards and Production teams.
- Collaborated closely with Business Development and other stakeholders to ensure design activities aligned with business needs.
- Communicated design updates to the department director and managers via design review presentations.
- Mentored interns and new hires in the Product Development team.

EDUCATION

BrainStation | Diploma in Data Science

SEP 2021 - DEC 2021, TORONTO, ON

- Cumulative Grade: 93.2%

University of Toronto | Bachelors in Mechanical Engineering | Minor in Robotics and Mechatronics

SEP 2012 - JUN 2017, TORONTO, ON

- Dean's Honours List

PROJECTS

Restaurant Rating Predictor | Capstone Project | Lead Coder

OCT 2021 - DEC 2021, BRAINSTATION

- Utilized NLP and machine learning to build a model that predicts restaurant ratings given business attributes and review text.
- Interpreted models to determine key features that affect restaurant ratings.
- Deployed final model as a web application using the Flask framework that was hosted on Heroku.
- Technologies used: Python, Jupyter Notebook, Pandas, Matplotlib, Seaborn, NLTK, Scikit-Learn, XGBoost, Optuna, Flask.

PROFILE

I believe that data-driven insights and solutions are key to moving businesses and communities forward.

Coming from an engineering and product development background, I have demonstrated strong analytical, problem-solving, and communication skills.

As a data scientist, these skills allow me to uncover insights from data, make business recommendations and deliver data solutions to the problem at hand.

SKILLS

Languages:

- Python, SQL, R, MATLAB

Data Analysis:

- NumPy, Pandas, PySpark, SciPy, Excel

Data Visualization:

- Tableau, Matplotlib, Seaborn, Plotly

Statistics:

- Hypothesis Testing, A/B Tests, Statsmodels

Machine Learning:

- Scikit-Learn, Keras, TensorFlow, PyTorch

Natural Language Processing:

- NLTK, Gensim

Big Data:

- AWS, Hadoop, Spark
- Flask, Streamlit
- Git and Command Line