ALEXANDRE DALY

Data Scientist

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EXPERIENCE

Domino's Data Scientist

Ann Arbor, MI

📅 August 2020 – Present

- Discovered actionable insights for increasing profitability and year-over-year growth.
- Built a robust pricing model using non-canonical masked language model methods, and hosting it on a Dash-backed dashboard.
- Reported results to stakeholders in weekly meeting.

Insight Data Science Fellow

New York City, NY

📅 January 2020 – March 2020

- Developed WeTube, an automated YouTube social listening platform.
- Summarized YouTube comments in real-time using BERT, t-SNE, HDBSCAN, and LDA.
- Built the web application with Dash and hosted on an AWS EC2 instance, deployed using AWS Elastic Beanstalk.

Graduate Researcher

Ann Arbor, MI

📅 January 2014 – August 2020

- Analyzed terabytes of High-Throughput Sequencing (HTS) data on the University of Michigan's High-Performance Computing cluster to find regulatory regions of DNA.
- Performed quality control, batch normalization, alignment, signal detection, and data visualization on both DNA and RNA.

PROJECTS

⌥ SangTK

Developed a model combining LSTM RNNs and logistic regression to improve upon the sequence quality of Sanger sequencing data. The model outperforms field-standard sequence prediction algorithms by 10%.

⌥ UCSC-Track-Prep

Software package that prepares genomic and transcriptomic data for visualization.

⌥ SangUM

Software package for batch processing and download of Sanger sequencing data from the University of Michigan Advanced Genomics core.

SKILLS

Programming Languages

Python | SQL | R | Bash

Tools

TensorFlow | Scikit-learn | AWS | Docker | Hugging Face | NLTK | Pandas | Git

Machine Learning

NLP models | Neural Networks | Supervised and Unsupervised models

Quantitative Methods

Genome-Wide Association Studies | Likelihood Estimation | PCA | Regressions

EDUCATION

University of Michigan

PhD in Genetics and Genomics

📅 Exp May 2020

University of Michigan

Master of Science in Genetics and Genomics

📅 May 2016

University of Nebraska-Lincoln

Bachelor of Science in Biological Systems Engineering

📅 December 2013

AWARDS

- 🎗 1st place at the Structural Birth Defects Meeting Elevator Speech Competition, Bethesda, MD
- 🎗 2nd place at UM Department of Human Genetics Elevator Speech Competition, Ann Arbor, MI