

IAN LIVINGSTON

DATA SCIENTIST

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Skills

LANGUAGES/SYNTAX

Python

HTML

CSS

SQL

Javascript

LIBRARIES

Pandas

scikit-learn

Matplotlib

Seaborn

Keras

NLTK

SpaCy

PyMongo

PySpark

MODELING/MACHINE LEARNING

Natural language processing

Classification modeling

Neural networks

Recommender systems

K-Means clustering

Random forest modeling

Regression modeling

Time series analysis

Dimensionality reduction

DATA VISUALIZATION

Tableau

Flask

Power BI

OTHER

A-B testing/experimentation

Data mining

Data engineering

Statistics

Cloud computing

Microsoft Azure

AWS

GCP

Travel writing

Communication

Extra

ATA 40th Annual World Congress

Nairobi, Kenya • November 2015

Panel speaker

Explore Canada Awards of Excellence

Montreal, Canada • October 2016

Finalist

Summary

Ian Livingston is a resourceful, generous and globally minded data scientist eager to bring machine learning and data-driven insights into spaces of need. He has built models in Python that predict TV ratings, sentiment in travel reviews, and foods beloved in far-off corners of the globe, and on a part-time basis he helps teach data science at the Metis Data Science Bootcamp. Earlier in his career, he served as an editor, a journalist and experiments lead for an online travel publication. He has spent time in 60+ countries.

Experience

Metis Data Science Bootcamp

Teaching Assistant

February 2021 to Current

- Lead technical review sessions related to supervised and unsupervised machine learning models
- Aid students in debugging Python code
- Guide students in the design, execution, visualization, and communication of end-to-end data science projects completed primarily using Python and SQL (PostgreSQL, SQLite)

Data Science Fellow

September 2020 to December 2020

- Graduated Metis's ACCE-accredited 12-week immersive data science bootcamp focused on data-driven, project-oriented learning
- Established comfort with a core curriculum centered around Python, statistics, supervised and unsupervised machine learning algorithms, exploratory data analysis, databases, and visualization/communication skills
- Completed five self-designed data science projects from conception to presentation, including data collection, data cleaning, analytical modeling, and communication of findings using PowerPoint, Tableau, Python plotting libraries, and more
- Projects included a foods-of-the-world recommender (deployed via Flask), sentiment analysis of topic-modeled Tripadvisor reviews, an NBA All-Star classifier, and a regression model mapping instructional elements of well- and poorly rated episodes of *The Simpsons*

JohnnyJet.com (travel blog)

Editor

June 2013 to September 2020

- Directed content and delegation of editorial assignments directly under Editor-in-Chief John DiScala, growing site traffic by more than 100% and to a peak of ~500,000+ monthly pageviews
- Managed deployment of weekly (~40,000 subscribers) and daily (~10,000 subscribers) emails
- Oversaw testing and evaluation of new content strategy across core brand channels, including to trim underperforming email features and identify topics for future focus
- Delivered reports on email and site engagement using performance data from Google Analytics and MailChimp
- Wrote original travel stories in WordPress mined on travel assignments in 35+ countries
- Edited original stories by all contributing writers and optimized associated HTML for publishing

#Travel Skills Group, Inc.

Chat Manager

December 2013 to September 2020

- Managed communications and sales with major travel clients like IHG, Southwest Airlines, United Airlines, and Viking Cruises as part of four-person team powering the U.S.-trending #TravelSkills Twitter chat
- Reported weekly on chat performance using key Twitter metrics and est. metrics via Hashtracking
- Consulted in development of and ran final edits on the weekly chat script
- Interfaced with potential and returning clients at travel industry events like the New York Times Travel Show

Projects

"Mining for Context in Alaska Hotel Reviews"

November 2020

- Fit a CorEx model to shake patterns—in the form of 11 topics—out of 70K+ reviews of hotel and other properties in Alaska via TripAdvisor
- Scraped, cleaned and pre-processed text data using lemmatization, POS-tagging, spell-checking with SymSpell, character normalization using unidecoder, and more
- Quantified sentiment across mini-corpus of reviews using Vader
- Mapped correlation between topic strength and metadata including property latitude

"Wiki2Vec: Connecting People With the World's Best Foods"

November 2020

- Built a text-based "foods-of-the-world" recommender with which users can input a dish and a region of the world to be returned a similar dish from the identified region
- Trained a neural network and from it extracted an embedding layer
- Scraped and parsed Wikipedia pages and Wikipedia backlink architecture in building vectors from raw text
- Deployed a working recommender tool via Flask with custom-built HTML and CSS

"The Anatomy of The Simpsons: What Episodes Earn Good IMDb Ratings?"

October 2020

- Fit a linear regression model that predicted IMDB ratings for episodes of The Simpsons
- Scraped and cleaned data pertaining to 26 seasons of episodes, including text from full episode scripts
- Engineered features accounting for viewer demographics, character line count, and more

Education

University of North Carolina-Chapel Hill

B.A. Journalism

August 2006 to May 2010