Matthew Crane

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ABOUT

I'm a data scientist experienced in experiment design, model building, network analysis, and querying complex datasets. I work well on cross-functional teams; I believe that clear, cogent communication is essential to successful data science.

EXPERIENCE

Patreon
Data Scientist Mar. 2016 - Oct. 2019

Product Analysis

- Designed and analyzed A/B tests in collaboration with product and engineering organizations; measured effectiveness of product releases and advised product managers on rollout strategy
- Built and maintained extensive product metric dashboards in Tableau + Mode Analytics

Modeling

- Built a multilabel classifier to segment creators into categories *(goals: generate leads for Customer Success team; allow product teams to review metrics split by creator type [musician, podcaster, etc.])*
- Conceived and implemented a community detection model on Patreon's creator network *(goals: track product usage and growth across granular segments of user base; identify segments at risk of churn)*

Other

- Built and maintained complex ETLs with Amazon Redshift + Airflow
- Designed and taught metrics/data onboarding class for new employees

Freelance Translator (Mandarin - English) - Microsoft Spring 2015

- Translated conversations between human users and Microsoft's 'Xiaoice' chatbot

EDUCATION

Tufts University
BA, Cognitive and Brain Science Studies 2010-2014
Emphasis on linguistics; courses in computer science, cognitive psychology

SKILLS

Code Python (NumPy, pandas, Airflow, scikit-learn); SQL; Javascript (d3.js) + CSS; Node.js
Tools Databricks; Jupyter; Mode Analytics; Tableau
Languages Mandarin

INTERESTS

I enjoy travel and writing; I've kept a travel blog on the road in India (2014) and Ethiopia (2020).

REFERENCES

Available upon request