

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		
	<i>Data Scientist</i>		Mar. 2016 – Oct. 2019
	Product Analysis		
	<ul style="list-style-type: none">■ 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		
	<ul style="list-style-type: none">■ Built a multilabel classifier to segment creators into categories (<i>goals: generate leads for Customer Success team; allow product teams to review metrics split by creator type [musician, podcaster, etc.]</i>)■ Conceived and implemented a community detection model on Patreon's creator network (<i>goals: track product usage and growth across granular segments of user base; identify segments at risk of churn</i>)		
	Other		
	<ul style="list-style-type: none">■ Implemented and maintained complex ETLs with Amazon Redshift + Airflow■ Designed and measured incentive program for Patreon's referral program■ Designed and taught metrics/data onboarding class for new employees		
EDUCATION	Tufts University		
	<i>Bachelors, Cognitive and Brain Science Studies</i>		2010–2014
	Emphasis on linguistics; computer science, cognitive psychology		
SKILLS	Code	Python (NumPy, pandas, Airflow, scikit-learn, networkx); SQL & Amazon Redshift; d3.js / React.js / CSS	
	Tools	Databricks; Jupyter; Zeppelin; Mode Analytics; Tableau; Amplitude	
	Languages	Mandarin	
PROJECTS	For data visualization, data science and writing that I've done, see my personal site at www.crane.fyi .		
REFERENCES	Available upon request		

