

MICAH SHANKS

Data Scientist

CONTACT



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github.com/Jomonsugi

SKILLS

LANGUAGES

- > Python
- > R
- > Bash

MACHINE LEARNING

- > recommendation systems
- > regression analysis
- > random forest
- > clustering methods
- > neural networks
- > XGboost

NATURAL LANGUAGE PROCESSING

- > document clustering
- > spaCy

BIG DATA

- > AWS
- > Spark

WEB

- > html
- > flask

DATA VISUALIZATION

- > dimple.js
- > matplotlib

DATABASE

- > mongodb
- > sql

PROJECTS

BOARD GAME RECOMMENDER

Created a collaborative recommendation system by optimizing an alternating least squares model on Spark and topic modeling using nonnegative matrix factorization

ENRON POI IDENTIFIER

Used feature selection and classification methods to identify possible fraudulent activity (persons of interest) by way of the enron email corpus

CHURN PREDICTOR

Performed exploratory data analysis, engineered features, and used XGBoost classification to predict churn among customers for a ride-sharing company

EXPERIENCE:

MARKET RESEARCH AND ANALYTICS

FREELANCE ANALYST, IPG MEDIA LABS Denver CO, 2014 - 2015

- Created and edited analysis decks, providing visualizations and commentary to effectively communicate a story to IPG's end clients

PROJECT MANAGER, PRECISION SAMPLE Denver CO, 2013 - 2015

- Managed projects exceeding \$2M combined yearly revenue
- Consulted clients on survey questions, sampling methodology, and best practices
- Added high profile clients to roster

ASSISTANT RESEARCH EXECUTIVE, MILLWARD BROWN Chicago, IL 2007 - 2008

- Recognized for serving the fastest growing client account in North America
- Analyzed TV and print advertisement performance through copy testing
- Monitored and provided reports on brand positioning by use of continuous trackers

INTERNATIONAL ACADEMIC

LANGUAGE INSTRUCTOR AND MENTOR, JET PROGRAM Osaka, Japan 2010 - 2013

- Created training modules and provided workshops for students traveling abroad
- Produced materials to assess mastery of both writing and listening skills

EDUCATION

GALVANIZE 2017

Data Science Immersive

Focused on predictive modeling, recommendation systems, natural language processing, feature selection and reduction techniques, big data methods, and adding to machine learning toolbox including neural networks

UDACITY 2015 - 2016

Data Analyst Nanodegree

Deep dive into data wrangling, exploratory data analysis, applied statistics, A/B testing, machine learning, and data visualization

ABILENE CHRISTIAN UNIVERSITY 2001 - 2005

B.S. Psychology