

TIFFANY MOELLER

DATA SCIENTIST

CONTACT

CHICAGO, IL 
/IN/TIFFANYMOELLER1 
GITHUB.COM/TIFMOE 

SKILLS & TECHNOLOGIES

PROGRAMMING

PYTHON, R, SQL,
SPARK, GIT

VISUALIZATION

TABLEAU, MATPLOTLIB,
PLOTLY, D3.js, GGPLOT2

WEB TOOLS

FLASK, HTML, CSS,
JAVASCRIPT,
WEBSCRAPING

DATA MANAGEMENT

POSTGRES, REDSHIFT,
MYSQL, MONGODB,
HADOOP

CLOUD COMPUTING

AWS (EC2, S3, RDS, EMR),
GOOGLE CLOUD PLATFORM

MACHINE LEARNING

REGRESSION,
CLASSIFICATION,
NATURAL LANGUAGE
PROCESSING (SPACY),
CLUSTERING,
NETWORK ANALYSIS,
TOPIC MODELING

CERTIFICATIONS

GENERAL ASSEMBLY

DATA SCIENCE
PART-TIME COURSE | 2017

BEST FIT ANALYTICS

DATA SCIENCE IN R
CERTIFICATION | 2016

EDUCATION

MOODY BIBLE INSTITUTE
B.A. COUNSELING | 2007-2011

PROFESSIONAL EXPERIENCE

DATA SCIENTIST

JAN 2018 - PRESENT

METIS IS AN ACCREDITED, IMMERSIVE 12-WEEK PROGRAM WITH A CURRICULUM DESIGNED TO BUILD A STRONG FOUNDATION IN PYTHON, SUPERVISED AND UNSUPERVISED MACHINE LEARNING TECHNIQUES, STATISTICS, DATA VISUALIZATION AND DATABASE MANAGEMENT

SELECTED WORK INCLUDES:

- **NON-PROFIT OUTREACH PRIORITIZATION**
BUILT A ROBUST SOLUTION TO ENABLE A LOCAL NON-PROFIT TO PRIORITIZE OUTREACH TO WOMEN WHO ARE LIKELY VICTIMS OF HUMAN TRAFFICKING USING A CUSTOM PRIORITIZATION ALGORITHM POWERED BY NETWORK ANALYSIS AND NATURAL LANGUAGE PROCESSING. THIS TOOL HAS BEEN DEPLOYED IN A FLASK APP WITH AN INTERACTIVE D3.js VISUALIZATION.
- **PARTISAN TWEET PREDICTOR:**
LEVERAGED SPACEY AND OTHER NLP TOOLS TO BUILD AN ENSEMBLE OF A NAIVE BAYES AND GRADIENT BOOSTING MODEL THAT CAN PREDICT THE POLITICAL AFFILIATION OF SOMEONE FROM A SINGLE TWEET. THIS PROJECT INCLUDED A FULLY AUTOMATED PIPELINE, FROM DATA GATHERING TO MODEL DEPLOYMENT IN FLASK.
- **CPS GRADUATION RATES:**
BUILT A REGRESSION MODEL TO PREDICT THE 2018 GRADUATION RATES FOR CHICAGO PUBLIC HIGH SCHOOLS USING DATA FROM THE 2016/2017 SCHOOL YEAR.

BUSINESS ANALYST

JUN 2016 - JAN 2018

- IDENTIFIED CORE BUSINESS KPI'S AND DEVELOPED INTERACTIVE TABLEAU DASHBOARDS TO TRACK KEY METRICS
- LED ANALYSIS WHICH CONTRIBUTED TO AN 80% IMPROVEMENT IN UNIT ECONOMICS
- BUILT OUT INNOVATIVE RISK ASSESSMENT SYSTEM TO IDENTIFY BAD ACTORS ON PLATFORM USING BEHAVIORAL ATTRIBUTES AND IP ADDRESS DATA
- PROMOTED TO SENIOR BUSINESS ANALYST IN NOVEMBER 2017

OPERATIONS ANALYST

FEB 2016 - JUN 2016

- DEFINED AND IMPLEMENTED IMPROVED CHARGEBACK MANAGEMENT PROCESS WHICH RESULTED IN A 2X INCREASE IN ANNUALIZED SAVINGS
- AUTOMATED PREVIOUSLY MANUAL INTERNAL SCREENING PROCESSES TO REDUCE OPERATIONAL COST BY MORE THAN 60%
- BUILT OUT A COMPREHENSIVE PAYMENT AUDIT FOR PAYMENT PROCESSING IN SITTERCITY'S ON-DEMAND, MARKETPLACE PRODUCT

TRUST AND SAFETY LEAD/ CUSTOMER SERVICE

JULY 2014 - JUN 2016

- DEVELOPED AND IMPLEMENTED SITTERCITY'S MOST EFFECTIVE FRAUD MONITORING SOLUTION WHICH REDUCED FRAUD BY ~80%
- FORMALIZED INCIDENT REPORTING STRUCTURE AND CONDUCTED TEAM TRAININGS
- MANAGED RELATIONSHIPS WITH VENDORS AND LAW ENFORCEMENT

COMMUNITY INVOLVEMENT

SECRETARY, BOARD OF DIRECTORS REFUGE FOR WOMEN
DIRECTOR OF DEVELOPMENT REFUGE FOR WOMEN
ART INSTRUCTOR SALVATION ARMY ANNE'S HOUSE