

Joseph McAllister

mcallister.94@osu.edu | (708) 941-7488 | [linkedin.com/in/josmcallister](https://www.linkedin.com/in/josmcallister) | github.com/McAllstr | medium.com/@cestyapo

Data scientist, engineer, and problem solver with a passion for learning and an obsession with turning disorganized information into interesting and useful products. Four years experience in data driven roles looking for a Data Science opportunity with an ambitious team.

SKILLS

Python | NumPy | Pandas | Scikit-learn | Keras | SQL | Mongo DB | AWS Cloud | Excel | Statistics | R | NLP | Project Management | Negotiation | Excel | PowerPoint

Projects

Combating Political Filter Bubbles with Recommender Systems – [Project Github](#)

Built content based recommender engine combining multiple NLP techniques to serve users topically relevant social media content from opposing viewpoints.

- Used Facebook graph API to retrieve hundreds of thousands of political ads.
- Utilized AWS cloud to train LSTM neural network to classify political ads by party lean.
- Built topical relevance model using TF-IDF vectorization with cosine similarity scoring.

Visualizing Every Flight Route in the USA – [Interactive Map Link](#)

Interactive network map of every domestic flight route in the USA that shows users how connected their city is.

- Used python and folium to build map back end with data extracted from US DOT and openflights.org.

Modeling High School Graduation Rates – [Project Github](#)

Modeled high school graduation rates community and identify community factors that associated with high and low graduation rates

- Extracted open-source socio-economic data from countyrankings.org, cleaned and transformed data.
- Trained multiple machine learning models including logistic regression, random forests, XGBoost, KNearest Neighbors to identify the best performance predictors.
- Developed context around what drives the models using matplotlib and seaborn visualizations.

Work Experience

Supply Chain Engineer, ASML

July 2017 – May 2019

- Identified four hardware design flaws causing increase scrap rates and manufacturing disruptions and drove solutions by relevant project teams saving \$20k in material costs and \$30k production lost labor monthly.
- Analyzed large volumes of data to reduce factory downtime, elevate quality, drive solutions.
- Extracted, built slide-decks, and reporting team ops and material quality metrics to site management.
- Lead team collaboration sessions to improve knowledge transfer and standardize ways of working.
- Negotiated with program management and matrix teams to ensure supply chain needs are prioritized.

Procurement Supplier Development Engineer, Textron

March 2015-January 2017

- Managed domestic and East-Asia supplier development projects overcoming numerous technical, schedule, and logistical barriers to deliver on-time supplier manufacturing readiness.
- Used data to drive 70% reduction in defects from international supply base.
- Reduced lead time on critical component from 11 weeks to 2 weeks by reconfiguring supplier and sub-tier supplier logistical flow ensuring production continuity during critical need period.

Thermal Systems Design Engineer Intern, GE Aviation

June 2013-August 2013

Education

Flatiron School, Data Science Immersive Program Fellow

Ongoing

University of Connecticut, Grad coursework in Statistics and Predictive Analytics

April 2019

Ohio State University, BS Mechanical Engineering

June 2014