

ANDREW UNDERWOOD

DATA SCIENTIST



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SKILLS

MACHINE LEARNING

Regression

Classification

Natural Language Processing (NLP)

Image Classification

Neural Networks

Deep Learning

PROGRAMMING

Python

SQL

JavaScript

Matlab

HTML

CSS

LIBRARIES AND FRAMEWORKS

Pandas

NumPy

BeautifulSoup

Selenium

NLTK

SpaCy

Gensim

Statsmodel

Scikit-learn

Keras

OpenCV

TensorFlow

DATA VISUALIZATION

Matplotlib

Seaborn

Tableau

D3.js

Looker

DATA MANAGEMENT/CLOUD TOOLS

AWS

Google Cloud

Git

MongoDB

PostgreSQL

Dask

Spark

Hadoop

Hive

CERTIFICATIONS

Certified Scrum Master

Tableau Data Scientist Certificate

DATA SCIENCE PROJECTS

Make Your Move: Image Recognition using Neural Networks

Combined computer vision techniques and convolutional neural networks to accurately classify chess pieces and their location on a chessboard. Tools: Python, Google Cloud, Keras, TensorFlow, OpenCV, Pillow, Scikit-learn, NumPy, Seaborn, and others

Reviewing Books: Summarizing Amazon Reviews

Created a summarization of a book's positive and negative Amazon reviews by using natural language processing, topic modeling, and unsupervised learning techniques. Tools: Python, AWS, MongoDB, NLTK, SpaCy, Scikit-learn, Tableau, and others

This Song is for You: Song Classification and Recommendation

Recommended songs by implementing supervised classification techniques on music and user data from KKBOX, one of Asia's leading music streaming service. Tools: Python, PostgreSQL, Google Cloud, Scikit-learn, Tableau, and others

Moneyball: Predicting Baseball Scores

Utilized five years of MLB baseball data and linear regression to predict score differentials, and analyze statistics that help to produce wins. Tools: Python, BeautifulSoup, Selenium, Pandas, NumPy, Matplotlib, Seaborn, and Scikit-learn

EXPERIENCE

Metis

Data Scientist Fellow

New York, NY

June 2020 to Sept. 2020

- Completed an ACCET accredited 12-week immersive data science bootcamp. Crafted and presented five data science projects covering statistical models, data visualization, and machine learning techniques. Please see project section.

Russell Reynolds Associates

Associate Researcher

New York, NY

Sept. 2018 to May 2020

- Member of the global research and search teams responsible for identifying business development opportunities and performing executive searches for clients in the Industrial and Technology sectors
- Drove efforts throughout the value chain of the search process to quickly identify and recruit candidates for C-suite, general management, and operational roles for both privately-held and publicly-traded firms

Air Force Operational Test and Evaluation Center (AFOTEC)

Data Analyst Lead

Edwards Air Force Base, CA

Sept. 2016 to Sept. 2018

- Member of a joint service and multinational unit responsible for assessing the operational effectiveness of the F-35 to conduct sustained air-to-surface and air-to-air missions in a network-centric environment
- Led cross-functional teams of operators, data analysts, and engineers in the execution of a \$1.2MM, three-week Electronic Protection (EP) test event; published a report evaluating and identifying unknown trends in the F-35's EP logic against 23 simulated electronic attack techniques
- Primary author of a F-35 air-to-surface test report; identified a 22% increase in data analysis efficiency (**SQL**), resulting in a decrease of 15 man-hours for future data analysis and reporting efforts
- Led a team of seven engineers and data analysts in coordinating and analyzing a three-day operationally representative air-to-surface warfare test consisting of three countries, 11 military units, 28 aircraft, and 22 live weapons; solved 27 test point deficiencies and validated the F-35's air-to-surface test design

Air Combat Command, 25th Air Force

Special Projects Team Lead

Wright-Patterson Air Force Base, OH

Sept. 2013 to Sept. 2016

- Managed a seven-member intelligence team to produce space and cyberspace intelligence products to support classified projects sponsored by the Secretary of the Air Force
- Drove the production and timely delivery of 64 intelligence products in support of 36 space and cyberspace programs for Air Combat Command, Air Force Space Command (AFSPC), and National Security Agency (NSA)
- Led a team of cross-functional experts to develop 42 capability requirements necessary for future Department of Defense (DoD) assets; these requirements shaped future space and cyberspace competences and were utilized as guidance for other agencies outside of the Do
- Identified and mitigated three potential cyberspace attack avenues and authored a space proximity intelligence report, all of which were vital to the survivability of an AFSPC \$1B program
- Ranked #1 of eight 2nd/1st Lieutenants in the 25th Air Force by Major General Bradford Shwedo, 25th Air Force Commander

EDUCATION

Auburn University

Bachelor of Aerospace Engineering Aerospace Engineering 2013

Samford University

Bachelor of Science Mathematics 2010