

MICHAEL DEBAKER

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Summary

I am a highly motivated individual who is looking to take my career to the next level. I have in-depth experience with industry standard data analysis techniques, as well as web development expertise. I am a reliable worker whose tenacity will not be matched. My vast knowledge base in high tech programming languages and data manipulation techniques give me an edge in providing knowledge-based information to customers. Allow me to be the catalyst to success for your next project.

Technical Skills

- ❖ Programming in Excel (Pivot Tables, VBA Scripting)
- ❖ Fundamental Statistics (modeling, Forecasting)
- ❖ Python3 Programming (Python, NumPy, Pandas, Matplotlib, API Interactions, Social Media Mining, AWS)
- ❖ Front End Web Visualization (HTML, CSS, Bootstrap, Dashboarding, Java Script Charting, D3.js, Geomapping with leaflet.js)
- ❖ Business Intelligence Software (Tableau), Big Data Analytics with Hadoop - Machine Learning
- ❖ Databases (MySQL, MongoDB, Oracle, Postgresql, ETL, SQL)
- ❖ Engineering (Solidworks, AutoCad, Revit, CMM Manager, PC Dimis)

Projects

Severe Weather Dashboard | <https://mldebaker.github.io/MyWebsite/MyWebPage/Instant/works.html>

- ❖ *Python | Pandas | Jupyter Notebook | Vs.code | JavaScript | dc.js | d3.js | HTML | CSS | Bootstrap*
- ❖ The goal of this project was to create a dashboard to display some form of data of choice. This data was brought in through an api call where we put it through the ETL process in Python using Pandas and ran through HTML, JavaScript dc.js and d3.js on a local host server to create a beautiful display and working dashboard.

Machine Learning Project | <https://mldebaker.github.io/MachineLearningProject/>

- ❖ *Python | Pandas | Jupyter Notebook | Vs.code | SciKitLearn | Keras | Tensorflow | Matplotlib*
- ❖ Our team sought to analyze the effectiveness of three machine learning libraries for image classification. Our goal was to compare the differences in classification accuracy among the three models we created versus a pre-trained model called "Mobile Net". First we found some data brought it in through the ETL process using Jupyter Notebook, Python and Pandas. Then compared our models using SciKitLearn, Keras, and Tensorflow against our pre trained model. Which we then displayed on a webpage.

Portfolio Website | <https://mldebaker.github.io/MyWebsite/MyWebPage/Instant/>

- ❖ *HTML | CSS | Bootstrap | JavaScript*
- ❖ My personal website. I created this to display my web development skill and show off some of the projects I have created.

CitiBike Tableau | https://public.tableau.com/profile/michael.debaker#!/vizhome/CitiBikeAnalysis_15810932239320/StartLocationVsEndLocation

- ❖ *Python | Pandas | Jupyter Notebook | Vs.code | Tableau*
- ❖ The goal of this project was to aggregate the CitiBike data to find two unexpected trends using Tableau. After using the ETL process to get the data ready I was able to create two dashboards reviewing average age using each station and which stations are often used for pick up and which stations are used mainly for drop off purposes. This is all filterable on date to also reveal some seasonal trends.

API Challenge | <https://mldebaker.github.io/Web-Design-Challenge/WebVisualizations/WebVisualizations.html>

- ❖ *Python | Pandas | Matplotlib | Jupyter Notebook | Vs.code | HTML | CSS | Bootstrap*
- ❖ In this project I created a for loop api call in a jupyter notebook using python and pandas in order to pull in some weather data. Which I displayed using multiple matplotlib scatter plots to show temperature, and weather trends around the equator. I then displayed this on a basic HTML, CSS, and Bootstrap web page.

Experience

Catalyst Analysis & Development LLC

(March 2019 - Current) Data Analyst – Create reports utilizing the ETL process using jupyter notebooks, pandas, python, matplotlib, and tableau

Ethos Distributed Solutions

(April 2019 - July 2019) *Tower Technician 1 – Maintain and create new Telecom systems*

Primus Aerospace

(March 2018 - March 2019) *Quality Inspector – Inspect Parts for Quality / Build, run, and maintain CMM programs and machines / Data entry*

Sterling Custom Homes

(March 2016 - March 2018) - *Superintendent Assistant – Manage teams of laborers. Assist with managing custom homes from the ground up in multiple different developments.*

Education

Denver University

Bootcamp Certificate – Data Analytics

This is a 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

Red Rocks Community College

Manufacturing and Quality Control - Level 1 Certification

Drafting, Manufacturing

This program covered all the basics and computer programming needed to inspect parts accurately and effectively. (CMM Manager, PC Dimis, SolidWorks, Height Gauge)