

TROY K. HEPPEL

Data Scientist | Machine Learning Engineer | Data Engineer

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SKILLS

Tools - Years of Experience

Python	2 +
SQL	4 +
Unix/CLI/git	2 +
AWS	1
Apache Spark	< 1
Tableau	2 +

Qualifications

Data Analysis
Machine Learning
Deep Learning (Neural Networks)
Natural Language Processing
Data Wrangling/Cleansing/Processing
Data Visualization

Python Packages

Pandas
NumPy
SciKit-Learn
TensorFlow / Keras
Boto 3
Matplotlib / Seaborn

EXPERIENCE

MORGANFRANKLIN CONSULTING, McLEAN, VA

August 2017 – present

Senior Consultant | Data Scientist

PROJECTS

Data Transformation Solution Development, Capital One

May 2018 – present

- Built custom ETL solutions using Python and AWS Lambda to collect and prepare data necessary to run rate risk models
- Used Docker images to spin up cloud containers for development and testing of Python scripts
- Leveraged AWS developer tools to extract/export data to and from S3, build and test Lambda functions

HVAC Optimal Start Time (Proof of Concept), JBG Smith

February 2018 – April 2018

- Analyzed sensor data to extract insights on temperature behavior of a commercial building over time (short and long term)
- Ran machine learning experiments to try to predict the optimal start time of a building's HVAC for a given day's conditions
- Built dashboards and time-lapse graphs using Tableau to give building managers a better understanding of temperature and humidity trends for various areas within the building and throughout the day

Tableau Implementation and Training, Bloomberg BNA

October 2017 – December 2017

- Served as Tableau SME, assisting with setup of data pipelines for seamless connections between enterprise tools and Tableau
- Built graphs and dashboards for various departments to efficiently recognize trends, detect anomalies, extract insights
- Conducted learning sessions on effective data visualization, training sessions on Tableau functionalities

Enterprise Resource Planning (ERP) System Implementation

August 2017 – October 2017

- Served as data transformation and validation analyst, leveraged SQL and python skills to implement data quality checks
- Certified that all information and stored data was properly carried over from the legacy system to new ERP system
- Developed solutions to data transfer errors in order to ensure that daily business would not be hindered

GENERAL ASSEMBLY, WASHINGTON, D.C.

Data Science Immersive Student

March 2017 – May 2017

- Participated in a full-time Data Science immersive course focused on real-world applications of data science principles and best practices, which consisted of data analysis, machine learning, data acquisition and wrangling, data cleansing, data visualization.
- Performed most of the work in Python, taking advantage of libraries such as Pandas, NumPy, SciPy, Matplotlib, Seaborn, SciKit-Learn, StatsModels, BeautifulSoup, etc.
- Applied skills to real-world data problems on large-scale projects, used data visualization to communicate and present results

ICF INTERNATIONAL, FAIRFAX, VA

Cost Estimator

January 2016 – September 2016

- Served as lead cost analyst consultant to the Department of Housing and Urban Development (HUD)
- Developed large-scale Independent Government Cost Estimates (IGCEs), Purchase vs Lease analyses, and supporting Basis of Estimate (BOE) documentation
- Utilized best practice cost estimating techniques, conducted market research, and analyzed data in order to predict the future cost of an item, product, program, or tool

IT Management Analyst

September 2016 – February 2017

- Served as lead infrastructure change analyst for the HUD Independent Verification and Validation (IV&V) team
- Ensured that the IT vendors followed all change protocols, documentation requirements, development and testing standards
- Tracked all infrastructure changes, the building and decommissioning of servers, software refreshes, application implementations

EDUCATION

Data Science Immersive Course

May 2017

General Assembly, Washington D.C.

Bachelor of Science, Industrial Engineering

May 2015

The Pennsylvania State University, University Park, PA