

ZACK STRATHE

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Project Portfolio: zstrathe.github.io

OBJECTIVE

Seeking full-time employment as a Data Scientist

EDUCATION

Kansas State University, Manhattan, KS

M.S. Data Analytics / In-Progress

- Data Science track
- GPA: 4.0
- Expected completion: August 2022
- Relevant coursework:

Programming Techniques for Data Science and Analytics (CIS 731)

Evaluated methods of feature selection and compared performance of image classification algorithms, entirely using the Apache PySpark distributed computing framework, with a data set of 500,000 labeled satellite images

Principles of Artificial Intelligence (CIS 730)

Trained a reinforcement learning agent to play the game Mario Bros, using OpenAI's Gym framework in Python, and evaluated methods of improving the trained proximal policy optimization (PPO) model with modifications to the state-space, the action-space, and the reward function.

Machine Learning and Pattern Recognition (CIS 732)

Developed and evaluated unconditional text generation language models with a text corpus of song lyrics, utilizing recurrent neural networks (RNNs) and generative adversarial networks (GANs) in Python with the PyTorch deep learning framework

B.S. Business Administration / December 2012

- Emphasis in financial management

SKILLS

Programming languages:

- Python, R, SQL

Pandas (data analysis Python package)

Scikit-learn (machine learning Python package)

Apache PySpark (distributed computing framework for Python)

Data Visualization Tools:

- Tableau, Matplotlib (Python package), ggplot2 (R package)

CERTIFICATIONS



EXPERIENCE

Crestwood Midstream Partners LP, Kansas City, MO

Settlements Analyst II / April 2018 – January 2021

Settlements Analyst / August 2015 – March 2018

- Developed GUI script in Python to automate process of entering expenses into cloud-based ERP system
- Managed daily contract allocations and billing, and monitored accounting transactions for purchases and sales of LPGs for various marketing groups, and monitored marketing P&L statements to identify, analyze, and correct accounting valuation errors
- Produced monthly financial reconciliations for producer agency marketing agreements totaling approximately \$200M annually

HNTB Corporation, Kansas City, MO

Billing Associate / October 2013 – August 2015

- Managed monthly billing process for approximately 75 architecture and civil engineering projects