Cameron Brandt

Entry-Level Data Scientist

recent graduate that is passionate about using data to drive business insights and improve decision-making, seeking a data scientist role at a company that values innovation and collaboration. With a background in statistics, machine learning, and programming languages like Python and R, I am eager to contribute my skills and expertise to a dynamic team and continue learning and growing in the field.

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Brentwood, TN

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WORK EXPERIENCE

Healthcare Bluebook

Software Engineer Intern
Franklin, TN | May 2018 - August 2018

· Used SQL to clean database from redundancy
· Fix bugs in XML
· Adding unit tests in C#
· Create file transfer microservice in C# using a queue

Bioinformatics Research at TTU

Research Assistant
Cookeville, TN | November 2021 - May 2022

· Worked with batch files in Linux HPC server
· Used bio blast and threading to send multiple API requests in order to get through batches faster
· Used seaborn to create multiple visualizations of the up/down regulated genes for serrated versus smooth leaves

SAIC Data Atlas Capstone project

Team member
Cookeville, TN | August 2022 - December 2022

· in charge of understanding and building outline of the pipeline
· Researched Natural Language Processing Models that worked best for database categorization
· Worked with team of 6 members with agile workflow and 2 week sprints

PROJECTS

Github Actions Testing

· Created basic convolutional neural network (NN) with fashion MNIST for working on model tracking
· Used DVC in .yaml files to comment metric comparisons to master branch and a confusion matrix to visualize inaccuracies
· Used DVC in .yaml files to track experiments in a grid search style in order to iterate through all of the combinations of hyperparameters

Discord Bots

· Used Discord API and Replit to create discord bots for friends
· Bum bot- scoring bot that keeps track of points and sends specific graphs on request
· List bot- keeps track of lists that the members are able to create, delete, remove, and add from
· Message bot- pulls from an array of questions to message the discord in set intervals that can be changed in order to keep server more active

Data Science Competitions

· Entered in Kaggle and Driven data
· Disease model- compared NN and random forests as well bagging and XGboost. Used random forests to impute missing data.
· MNIST model- compared different NN in Keras, as well as using Bayesian tuning to narrow down the searches faster than random or grid search.

Stock Data Exploration and Prediction

· used linear regression to create categories for to predict the future state of the stock
· used an LSTM NN and bayesian tuning to find the best model to predict the state
· used DDPG to take in the state as well as amount of money and stocks it currently possesses

Generative Adversarial Network Image Generation

· playing with different layers and number of nodes to see effect on generated images
· used styleGAN to produce images of dogs

SKILLS

- Programming: SQL, Python, R, C#, Java, JavaScript, HTML, CSS, yaml
- Reinforced Learning: Q Learning, Deep Deterministic Policy Gradient (DDPG)
- Supervised Learning: linear and logistic regressions, decision trees, support vector machines (SVM), Random Forests, Neural Networks (NN)
- Unsupervised Learning: k- means clustering, principal component analysis (PCA)
- Tools and Libraries: Seaborn, Matplotlib, Keras, Tensorflow, Pythorch, Git, MLflow, Sci-Kit Learn, DVC, Docker

EDUCATION

B.S.
Computer Science
Concentration: Data Science
Tennessee Technological University
August 2018 - December 2022
Cookeville, TN
GPA: 2.9

RELEVANT COURSES

- Introduction to Data Science
- Independent Study on MLOps
- Machine learning
- AI
- Databases
- Probability & Statistics
- Linear Algebra
- Calculus 1,2