# GARRETT HOLLAND

## DATA SCIENTIST

## CONTACT

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## SKILLS

- Python
- R
- SQL
- Excel

- Machine Learning
- Statistics
- Webscraping
- Git/Github

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## EDUCATION

**Nashville Software School   2022  -  Present**

- **Data Science Apprentice**

**University of Tennessee   2016 - 2018**

- **Completed Coursework Towards B.S in Computer Science**
- **Will be finishing degree in Computer Science online once I am finished at NSS**

## PROJECTS

- **Final Capstone**

This project aims to develop an AI bot that can play chess on its own by using a machine learning model. The bot will learn from its own gameplay as well as the gameplay of top professionals around the world to improve its performance over time. Additionally, a Shiny app will be created to visualize the bot's ranked play journey.

## ABOUT

As a data scientist with a passion for problem-solving and a meticulous attention to detail, I have a proven track record of delivering data-driven insights that drive business growth.  I am skilled in using a variety of tools and technologies to extract valuable insights from complex datasets. Whether collaborating with teams or working independently, I am committed to delivering high-quality results that meet or exceed expectations. With a keen interest on keeping up-to-date with emerging trends and technologies, I am always seeking new challenges and opportunities to expand my skill set and contribute to the success of any organization. I am seeking a data science position where I can use my skills to propel a company forward, help them gain a competitive edge in the market, and achieve their goals while also perfecting my craft.

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## WORK EXPERIENCE

**Data Science Apprentice**

**Nashville Software School    2022 - Present**

- Created data visualizations using matplotlib, seaborn, and ggplot2.

- Performed geospatial analysis using geopandas and folium.

- Gathered data through APIs and Webscraping.

- Cleaned and manipulated raw data using statistical software.

- Analyzed, manipulated and process large sets of data using statistical software.

- Created graphs, charts and other visualizations to convey results of data analysis using specialized software.

- Compared models using statistical performance metrics, such as loss functions and proportion of explained variance.

- Tested, validated and reformulated models to deliver accurate prediction of outcomes of interest.

- Read scientific articles, conference papers, or other sources of research to identify emerging analytic trends and technologies

- Participated in ongoing training to enhance own job skills and knowledge.

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## PROJECTS CONTINUED

- **Vanderbilt ACCRE**

We were tasked with analyzing data on jobs run on the ACCRE cluster at Vanderbilt University. The provided database contained information on jobs submitted to ACCRE's GPU partitions. The objective of the project was to answer several questions, including the distribution of per-GPU main memory usage, the distribution of the number of GPUs in each job, the total runtime usage per-GPU, the distribution of different groups and users accessing each partition, and the distribution of requested and actual runtime on jobs in each partition. By answering these questions, the project aimed to help ACCRE better understand the needs of its users and make informed decisions about future hardware purchases.

- **Midcourse Capstone**

Created a model that analyzes the impact of homecourt advantage on the NBA. Then created a shiny app and implemented this model for visualizations

- **League of Legends Match Prediction**

There was a machine learning competition for who could build the most accurate model in my Data Science Cohort. The predictions were based on data from 8000 train matches and 2000 test matches. My model won the competition by over 3 accuracy points with a 74.9% accuracy on the test data.

## WORK EXPERIENCE

**Traditional Home Mortgage  2018 - Present**

**Chief Financial Officer  /  Mortgage Broker / Data Scientist**

- Led a team of 4 other mortgage brokers in 2022 to a record breaking year of over 50 million in sales.

- Created an algorithm that increased company's annual revenue over 250% leading to me becoming Chief Financial Officer.

- Built relationships with sellers, buyers, and realtors to understand buyer needs, timelines, and how to give our customers the best/most efficient experience possible.

- Designed marketing campaigns through the use of social media and promotional items to obtain over 70% of business from referrals.