Pete VanBenthuysen

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EDUCATION

Arizona State University — Tempe, AZ
Bachelor of Science in Data Science, Minor in Economics — *Dec. 2025*
- GPA: 3.75

SUMMARY

Results-oriented Data Scientist with a solid foundational understanding of data analytics and machine learning. Skilled in using R, Python, and AWS to manage and analyze large datasets. My approach combines rigorous data manipulation with advanced statistical methods to optimize model performance and enhance decision-making processes. I am committed to continually learning and applying new techniques to improve outcomes in data-intensive fields.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Bash, Java, R
Frameworks: Next.js, Django, Flask, Angular, Discord.js, Django REST Framework
Developer Tools: Git, Docker, Kubernetes, NGINX, Redis, Playwright, PyCharm, Whisper, yt-dlp, ffmpeg
Libraries: PyTorch, Playwright, NumPy, Plotly, Enmap, plyr, tidyverse, ranger, tunRanger, ggbiplot, stats, xgboost, nueralnet
Licenses and Certifications: AWS Cloud Practitioner, Microsoft Office Specialist (Word, Excel, PowerPoint)
Leadership and Community Involvement: Pi Theta Kappa Academic Achievement Honors Society, NLHS Society, Dean's list, ASU Devil Data Science, ASU CodeDevils

PROJECTS

Major League Baseball Runs Predictor | *R, Python, Data Manipulation, AWS* — Sep. 2024 – Current
- Utilized a variety of R libraries including dplyr, plyr, and caret for data manipulation and machine learning, significantly improving prediction accuracy
- Optimized a Random Forest model with TuneRanger, identifying and refining key target variables, and prepped data for a classification engine. Enhanced data integrity by synthesizing missing data points using KNN, boosting the model's accuracy and reliability
- Implemented AWS infrastructure with load balancers and auto-scaling, handling extensive data sets and reducing computation times by 40%.

"Zoomer" Translator | *Python, Trie, Natural Language Processing* — Mar. 2024 – May 2024
- Developed an efficient slang translation tool using a Trie data structure, enabling fast phrase matching and natural language processing to convert formal text into slang
- Created a comprehensive slang dictionary covering greetings, phrases, and common expressions, supporting dynamic translations with real-time adaptability
- Resolved TensorFlow mismatches by implementing custom pre-processing layers, ensuring compatibility between input data and model requirements, leading to smooth and accurate language processing

NBA Statistics Scraper | *Python, Playwright, pandas, APIs* — January 2024 – January 2024
- Engineered an NBA Player Log Scraper with Python and Playwright, efficiently gathering detailed player performance data across multiple seasons, boosting analytics capabilities for fantasy league management
- Developed a Python-based data scraper to automate the daily collection and analysis of player data, enhancing sports analytics capabilities and supporting over 1,000 daily queries
- Implemented an NBA Team Logs Scraper to automate retrieval of game-by-game team statistics, significantly improving historical data analysis and supporting strategic decision-making for sports analysts and enthusiasts

EXPERIENCE

Westbull Investments — Denver, CO
Real Estate Analyst – Appreciation Analysis Denver-Metro Area — *Nov. 2020 – Nov. 2022*
- Developed comprehensive financial models for rental properties, driving data-driven investment decisions that facilitated the acquisition of $5 million worth of residential properties
- Conducted research and analysis to identify and implement beneficial business strategies, enhancing operational efficiency

Westfield Development — Denver, CO
Sales Associate - Residential and Commercial Real Estate Development Group — *Oct. 2018 – Mar. 2019*
- Revitalized under-performing territories with strategic initiatives, boosting sales volume by 20% and enhancing market penetration within a year through targeted marketing
- Generated record-breaking leads, resulting in the sale of units valued at $8 million over several months