William Andrews

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PROFESSIONAL SUMMARY

William & Mary student with a passion for data science, currently advancing skills in languages including Python, R, HTML, CSS, skills in machine learning, and advanced mathematics. Focused on data-driven decision making, adept at using Python for computational problem-solving in data science, and proficient in R, with a solid grasp of statistical analysis for real-world business and/or research scenarios. Countless hours spent on personal projects starting in highschool using R to optimize golf skills for competitive play, to now consistently working on new projects every week in advanced topics like data analysis.

NOTABLE PROJECTS

Large Language Model Detector
- Created a Bidirectional Neural Network that predicts whether an essay has been written by a human or LLM, using Python
- Used Natural Language Processing to wrangle a dataset of almost 800,000 pieces of text generated by either human or LLM
- Model accuracy: almost 90%. I expect this to increase as I make general improvements and train for longer periods of time
- This model can be applied to many situations in academia to prevent GPT plagiarism
- Soon to be deployed in a website

PDF Scraper
- Worked with the startup company Compliancy to develop a program that checks whether roofing permit pdfs in specific Florida municipality websites have changed, and downloads the changes, since they often are changed without notice.
- Aimed at helping Compliancy get new updated roofing permits to roofers, of whom it is their goal to help pull permits faster.

Auto-Enrollment-Checker
- Created a Python program that every 5 minutes goes to my course registration site and checks whether a course is available
- If a spot opens up, the program sends me a notification through a Telegram API
- Used this when a desired class was full and I wanted to know as soon as possible when a spot was open to sign up

Personal Website
- Coded my own professional/academic website using HTML, CSS, and JavaScript: https://william-thomas-andrews.github.io/

Numerous Data Analysis Projects
- Performed many data and machine learning analyses that can be found on my github account.

EDUCATION

Bachelor of Science | 1st Major: Computer Science | 2nd Major: Mathematics   **Expected May 2027**
William & Mary | Williamsburg, Virginia
GPA: 3.76   **Honors and Awards:** Dean's List

High School Diploma   **September 2019 - May 2023**
Woodberry Forest School | Woodberry Forest, Virginia
GPA: 4.09   **Honors and Awards:** Walker Scholar, Honor Roll, Varsity Golf Letter

NOTEABLE COURSES

**Data Structures	Discrete Mathematics	Adv. Multivar. Calculus	Computer Organization	W&M**	**Upcoming Fall 2024**
**Calculus II	Linear Algebra	Directed Research in Data Science	W&M**	**Summer 2024**
**Intro to Data Science	Data-Driven Decision Making	W&M**	**Spring 2024**
**Programming for Data Science	Business Statistics	W&M**	**Fall 2023**
**Money-ball Training Camp	Prescriptive Analytics	UPenn**	**Summer 2022**

WORK EXPERIENCE

**Intern	Compliancy**	**May - June 2024**
**Golf Caddie	Burning Tree Golf Club**	**June - August 2023**
**Golf Counselor	Hogneck Golf Course**	**June - July 2021 & 2022**

Relevant Organizations: Data Science Society (W&M), Computer Science Club (WFS)
Software Skills: Python, R, HTML, CSS, LaTeX, Google Workspace, Microsoft 365