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Candice Miller

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I am an Physics and Earth Science teacher looking to make a change to AI research and ML engineering. Proficient in fundamental ML algorithms and Deep Neural Networks. I'm interested in applications in robotics, education technology, climate change mitigation, quantum computing, and entertainment. I want to bring a little more magic into this world.

Work Experience

Secondary Science Teacher — **Palm Beach County School District** — **Sep 2016–Present**
AP Physics and Earth Science — Greenacres, FL

- Science Fair Coordinator
- Gay Straight Alliance Sponsor
- Physics and Math Tutoring
- Revamped AP Physics Program
- Technology Trailblazer program bringing innovative ed tech to the classroom

Coding Instructor (Volunteer) — **Women's Code and Coffee** — **2018–Present**
West Palm Beach, FL

- Worked with a team of established engineers to teach topics in responsive web design and python

Math and Physics Tutor — **Self Employed** — **2010–Present**
West Palm Beach, FL

- Worked with students ranging from elementary to college in math and physics to increase student outcomes 3 grade levels on average

Education and Certifications

- **Quickstart Bootcamp Certificate Artificial Intelligence/Machine Learning,** Florida Atlantic University **2021–2022**
- **B.A. Physics,** University of South Florida, Tampa, FL **2012-2016**
- **Certificate in Japanese Studies,** Kansai Gaidai University, Hirakatashi, Japan **2015**

Technologies and Languages

- Computer Languages: Python, C++, HTML 5, CSS 3, Javascript
- Technologies: Tensorflow, Pytorch, Scikit-Learn, SciPy, SQL, Jupyter, Pandas, Numpy, Bootstrap, NLTK, LaTeX, Microsoft Office, SQL Server, OpenCV
- Other: Data structures and algorithms, Regular Expressions, Data Scraping, Data Mining, Deep Learning, Computer Vision, Research, Experimental Design, Statistical Analysis, Data Vis.
- Human Languages: Japanese, Spanish

Projects

- **Deep Dream Reimplementation** Reimplemented Deep Dream from scratch in both Tensorflow and Pytorch.
- **Balanced EMNIST Classifier** Because MNIST is too easy! Achieved 89% classification accuracy, matching best architectures online. Difficulties pushing beyond 90% accuracy due to the similarity of some characters (lowercase and capital F, among others)
- **Self Driving Car Computer Vision** Developed a system that could detect drive speed from dashcam footage and identify and box traffic signs. Working on extending functionality to lane detection.