Robert Vazquez

Aspiring Machine Learning Engineer | Computer Science Student, UofSC (2027)

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Driven Computer Science student at University of South Carolina (Class of 2027) with experience in machine learning research. Skilled in Python, Pytorch, and data science libraries (NumPy, Pandas, and Scikit-learn). Seeking opportunities to apply ML and model development in real-world projects.

Education

University of South Carolina — Columbia, SC
B.S. in Computer Science, Expected May 2027

Midlands Technical College — Columbia, SC
A.S. in Computer Science, Aug 2023 — May 2025

Research Experience

Undergraduate Research Assistant — DeepCubeA Research Group, University of South Carolina

Sept 2025 — Present
Advisor: Prof. Francesco Agostinelli

- Applying **DeepCubeA**, a deep reinforcement learning model that estimates heuristic values for A* weighted search.
- **Frame diverse problems as pathfinding tasks** to leverage heuristic solutions with DeepCubeA.
- Assisting a master's student in applying DeepCubeA for **quantum circuit synthesis**.
- Utilizing **PyTorch** for model development and experimentation.

Technical Skills

Programming: Python, SQL, C++ (Qt)
ML & Data: PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib
Tools: Git, Linux, Jupyter Notebook