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FOCUS: MACHINE LEARNING

EDUCATION

Columbia, MO	**University of Missouri**	**Fall 2016 – May 2020**
	Bachelor of Science in Computer Science	
	(Minor in Mathematics)	
	Hours Completed: 86	

PROJECTS

- **med-api (Python, Keras, Flask):** A RESTful API for medical applications of machine learning. For example, classifying data from a fine needle aspiration of breast mass as malignant or benign. (In Progress)
- **Convolutional Nets (Python, Keras):** Implemented convolutional neural networks on both the Fashion MNIST image dataset and the CIFAR10 image dataset.
- **BirdVisualizer (Python):** This program scrapes data about the location, id, battery, and captivity status of Bird Scooters and plots them on a map within a particular radius. A tool for Bird chargers to more effectively grab scooters.
- **Evolutionary Blackjack (Python):** Used evolutionary computation methods to teach an agent to play blackjack at a decent level. In particular, a particle swarm agent as well as a regular cross-over/mutation agent.
- **HMWRK (Java):** A homework management app that keeps track of classes and assignments with support for saving and loading students, course/assignment organization, and priority flagging. Built with a team using Scrum and Kanban.

EXTRACURRICULAR INVOLVEMENT

- **TigerHacks (2017-Present):** Director of sponsorship for the university's annual hackathon.
- **Mizzou Computing Association:** Currently participating in the Machine Learning SIG.
- **Concert Chorale:** Performed in this audition-based choir in Spring 2017 and Fall 2017.

RELEVANT COURSEWORK

- Computational Intelligence, Artificial Intelligence, Machine Learning, Software Engineering
- Calculus I-III, Discrete Math, Numerical Linear Algebra, Mathematical Statistics

OTHER INTERESTS

- Reinforcement Learning
- Explainable AI
- Location Data

LANGUAGES, TECHNOLOGIES, OTHER SKILLS

- Python, Java, C, MATLAB/Octave
- Scikit-Learn, Keras, NumPy, Pandas, Flask, MySQL
- Scrum, Kanban, Git