Brandon Kohrt

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EDUCATION

University of Colorado Boulder, Boulder, CO — January 2024-Present
B.S in Applied Computer Science (finish August 2025)
GPA: 3.9

University of Colorado Boulder, Boulder, CO — August 2019-May 2023
B.A. in Neuroscience
B.A. in Psychology
Business Minor
GPA: 3.9

WORK EXPERIENCE

Professional Research Assistant - Adolescent Brain Cognitive Development Study — May 2022-Present

- **Current Research Project:** Analyzing data from ~12,000 participants to determine if students labeled gifted and talented (GT) in school have different levels of substance use as compared to those who are not labeled GT, mediated by their success in school.
- **Additional Responsibilities:**
  - Work with adolescent and adult participants to administer surveys and assess cognitive ability
  - Organize data into detailed database
  - Present at journal club to keep research group updated on current findings
  - Collaborate with technicians to administer brain MRI scans on study participants
  - Regularly optimize study protocols and data collection methods

SKILLS

- **Programming Tools:** Python, SQL, C++, C, R, CSS/HTML, JavaScript, GitHub
- **Data:** Relational/non-relational databases, ETL pipelining, Pandas, Numpy, Scikit, Tableau**,** Power BI, Matplotlib
- **Microsoft Suite Applications:** Excel, Word, PowerPoint
- **Soft Skills:** Teamwork, public speaking, excellent written and oral communication
- **Machine Learning/AI:** Supervised and unsupervised learning models, search algorithms, tensorflow
- **Certifications:** Docker Foundations

PROJECTS

Website Development: Worked as part of a group of 5 developers, using Agile methodology, to create a fully functional website to be used by Dungeons and Dragons players for generating random monster encounters based on user-input of party members and their levels. Monsters are pulled from the official dungeons and dragons database utilizing their provided API. Demo video on GitHub.

Database Management: Created a relational database using phpMyAdmin for Eden Landscaping, based on a real landscaping company, to keep track of their inventory of livestock and landscaping materials. The database holds data regarding sales, customers, shipments, and suppliers to maintain an accurate inventory and provide information about each product.

Tumor Classification Using Machine Learning: Performed exploratory data analysis and cleaning, created, trained, and tuned machine learning models (decision trees, random forest, Adaboost, KNN, SVM) on a variety of data from cancer patients and their genes to determine which model performed the best in classifying whether a patient has a major or minor type of tumor with a maximum accuracy of ~85%.