Jeremy Kozlowski

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EDUCATION

California Polytechnic State University — San Luis Obispo, CA
Master of Science — Computer Science — *Sep. 2023 – Dec. 2024*
*Bachelor of Science — Computer Science, **GPA: 3.98*** — *Sep. 2020 – Dec. 2023*

Relevant Coursework: Algorithms, Data Structures, AI, NLP, Data Science, Programming Languages, Databases, Operating Systems, Systems Programming, Object-Oriented Programming, Computer Security, Software Engineering

Awards and Honors: President's Honors List (2020, 2021, 2022), California Seal of Biliteracy, Dean's List (9 quarters)

TECHNICAL SKILLS

Languages and Tools: Python, C, Java, SQL, Racket, Pandas, NumPy, TensorFlow, Scikit-learn, Git, Unix, ARM
Other Coursework: Calculus IV, Modern Physics, Statistics, Linear Analysis, Technical Writing

WORK EXPERIENCE

Air Force Civilian Service — *Hill AFB, UT* — June 2023 – Aug. 2023
- Improved the accuracy of the language model for a physical chatbot by 57% with an LSTM network
- Produced a comprehensive test suite and report to advocate for the adoption of my model over the existing one
- Created a presentation to educate over 30 department members on various machine learning topics including neural networks

Computer Science Teacher — *San Luis Obispo High School* — June 2022 – July 2022
- Developed and taught a computer science curriculum for 150 elementary and middle school students
- Presented topics including project design, computer systems, artificial intelligence, debugging methods, and game physics

Data Structures Teaching Assistant — *Cal Poly, San Luis Obispo* — Jan. 2022 – Mar. 2022
- Assisted students on labs and projects and guided them towards better coding habits
- Helped students implement and apply fundamental data structures in Python
- Reinforced concepts of recursion, time complexity, sorting algorithms, and unit testing in students

Website Developer — *Sacramento, CA* — Aug. 2021 – Nov. 2021
- Designed web pages for a client through WordPress
- Collaborated with team members and the client to congregate existing websites into one

PROJECTS

Image Captioning AI | *Python* — Oct. 2023 – Dec. 2023
- Built an image captioning model using the BLIP architecture and adjusted model hyperparameters during validation
- Applied the model to aid accessibility and assist in human search and rescue attempts in conjunction with other researchers
- Compiled report with quantified results using generated text metrics such as bleu, rouge, and meteor scores

MLB Player Success Predictor | *Python* — Oct. 2023 – Dec. 2023
- Predicted career success of MLB players based on their rookie season statistics using a stacking ensemble model in Scikit-learn
- Wrote a Python script to scrape and clean multiple Baseball-Reference player pages using Pandas and Beautiful Soup
- Optimized hyperparameters using 10-fold cross-validation and GridSearchCV while also adjusting features and algorithms

Stellar Classification | *Python* — Apr. 2023 – Dec. 2023
- Applied various machine learning algorithms to classify stellar objects from observational properties
- Compared kNN, neural network, SVM, Naive Bayes, decision tree, and random forest model results
- Incorporated a clear interface for physicists and astronomers to use the highest accuracy model for efficient classification

NBA Wins Predictor | *Java* — Mar. 2023
- Projected wins in the 2023 NBA season based on player statistics using k-nearest neighbors built from scratch
- Determined the hyperparameter k using 10-fold cross-validation on the training set to produce accurate results
- Extended code to modify feature selection, distance methods, and error calculations to discover the most suitable approaches

Tape Archiver | *C* — Feb. 2022
- Replicated Unix tar tool to support the creation, extraction, and listing of files in USTAR format
- Utilized recursive directory traversal functions to aid in the organized creation and extraction of entire file trees
- Preserved permissions and file metadata throughout transport to retain properties for verbose file listing

ORGANIZATIONS

Sigma Phi Delta: Professional Engineering Society — *Brotherhood Chairman* — Nov. 2021 – Present
- Organizing events for 50+ members to build connections and form meaningful relationships

Hands for the Homeless — *Vice President/Treasurer* — Aug. 2018 - Jan. 2021
- Raised 1,844 dollars for a Sacramento homeless shelter by tutoring students in our community for voluntary donations or free
- Ensured members were attaining monthly goals and was responsible for collecting and donating money members raised