Yun Waddy Oo

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EDUCATION

California Polytechnic State University, San Luis Obispo

B.S. in Computer Science Expected Graduation, May 2027

- **Concentrations:** Artificial Intelligence and Machine Learning; **Minor**: Data Science
- **GPA:** 3.86/4.00
- **Related Coursework:** Data Structures & Algorithms, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Full-stack Web Development, Discrete Mathematics.

PROJECTS

Semantic Book Recommender | *Python, Langchain, Gradio, OpenAI, Pandas, Numpy, Matplotlib, tqdm* **|** *recommender.github*

- Implemented zero-shot text classification pipeline using fine-tuned Hugging Face transformers, achieving 78% correct prediction score when determining book categories based on descriptions.
- Integrated LangChain and OpenAI embeddings for vector embedding and matched through cosine similarity algorithms to find the relevant recommendations.
- Developed Gradio dashboard with category and emotional tones with responsive gallery layout.

Stock Price Predictor | *Python, TensorFlow, Keras, Pandas, NumPy, Scikit-learn, Matplotlib* **|** *stock-price-prediction.github*

- Applied TensorFlow and Keras API to predict stock prices with an error (RMSE) less than 5.
- Utilized Matplotlib to conduct Exploratory Data Analysis on 9 companies, Pandas to manipulate datasets and Numpy to vectorize the data, using a sliding 60-day window to improve runtime and reshape data into 3D format for LSTM.
- Trained a 5-layer Long Short-Term Memory (LSTM) model and predicted the stock price by randomly dropping out half of the neurons to reduce overfitting and optimized with Adam optimizer to reduce model loss by 15%.

Credit Card Fraud Detector | *Python, Seaborn, Pandas, NumPy, Scikit-learn, Matplotlib* **|** *credit-card-fraud-detection.github*

- Trained a fraud detector using Random Forest Classifier, achieving 97.47% precision score with 87.01% balance between precision and recall on an imbalanced dataset of transactions, measured by Scikit-learn metrics module.
- Utilized Pandas and Numpy to find correlation matrix and visualized data correlations using Matplotlib and Seaborn to uncover negative correlations patterns and confusion matrix, identifying false positives and negative cases.

Real-time Chat Rooms | *JavaScript, Node.js, Express, Socket.IO , Moment.js, CSS, HTML* **|** *real-time-chat.github*

- Built a full-stack real-time chat using Socket.IO and dynamic DOM updates using vanilla JavaScript to enable bidirectional websocket communication, reducing message latency by 95% with zero page reloads.
- Implemented server-side routing with Express.js and Nodemon for automatic server restarts.
- Utilized modular architecture with components to improve reusability and reduce debugging time.

EXTRACURICULAR ACTIVITIES

Mt. San Antonio College **Walnut, California**

Computer Science and Mathematics Tutor *Sept 2024 – July 2025*

Udemy Certifications

- Full-Stack Web Development Certification
- The AI Engineer Certification

SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, C++, SQL

Frameworks/Tools/Domain: NLP, LLMs, Git, GitHub, Agile, Tailwind CSS, Express.js, Hugging Face, APIs, Nodemon, Node.js, React.js, Jupyter Notebook, WebStorm, PyCharm, VS Code, Kaggle

Libraries: TensorFlow, Keras, Transformers, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, tqdm, Gradio, Socket, Moment.js