HARRY YIN

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EDUCATION

Leland High School - Class of 2026
Unweighted GPA: 3.98
SAT: 1530

AP Courses Completed: AP Calculus BC (5), AP European History (5), AP Physics 1 (4)
AP Courses In Progress: AP Computer Science Principles, AP US History, AP English Language

RESEARCH EXPERIENCE

Alitheia AI – News Objectification AI Pipeline

github.com/Xild076/ObjectiveNews | objectivenews.streamlit.app

- Developed comprehensive AI pipeline for news objectification with information retrieval, grouping, objectification, and verification systems
- Implemented novel techniques in rule-based objectification and textual clustering
- Completed beta version with website hosted on Streamlit

LS&DAI – Speech & Debate AI

github.com/Xild076/LSDAI | lsd-ai.streamlit.app

- Created AI speech coach with four key features: content analysis, emphasis analysis, tonal analysis, and speed analysis
- Implemented OpenAI's Whisper and ChatGPT API for feedback and built self-trained torch-based model for tone analysis
- Currently being beta-tested by the Leland Speech and Debate team

Polystock AI – Stock Determination AI

github.com/Xild076/StockPred | xild-stockpred.streamlit.app

- Engineered RNN-based model to predict stock prices using multiple data sources: stock data (yfinance), Federal Reserve data (FRED), and news sentiment (bs4 and TextBlob)
- Implemented LSTM architecture with alternatives like GRU, TCN, TSTransformers, and CNNs

AI Catalog – PyTorch Recreation

github.com/Xild076/AICatalogue

- Recreated PyTorch with multidimensional tensors, neural network optimizations, and vanilla policy gradient using Karpathy's micrograd as a framework

SKILLS & LANGUAGES

Python (Intermediate-Advanced): Self-taught through W3Schools, GeeksforGeeks, Tutorialspoint, GitHub projects, and tutorials with strong practical application across multiple projects

Machine Learning: Self-taught through Karpathy's blogs, Medium, Towards Data Science, and OpenAI resources with experience building projects and working with PyTorch