Ethan Childs

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Education

Texas Tech University Lubbock, Texas
Master of Science in Computer Science Expected Graduation: Spring 2027
- Focus: Data Science

Bachelor of Science
Major: Computer Science
Minor: Mathematics
- GPA: 3.7
- President's List: Spring 2023, Fall 2024
- Dean's List: Fall 2021, Spring 2025

Work Experience

Data Analyst January 2025 – Present
NemaLife inc. Lubbock, Texas
- Performed thousands of video annotations to build datasets for training the company's AI model.
- Developed Python scripts to upload annotated datasets into the AI system.
- Collected and organized raw data in Excel from the pharmaceuticals tested on *C. elegans.*
- Coordinated with a team of 10 data analysts to ensure project deadlines were consistently met.

Data Analyst Internship May 2024 – August 2024
P Leonard Consulting Midland, Texas
- Utilized Python to analyze oil industry datasets to support strategic business decisions.
- Cleaned, and organized raw data into Excel to highlight region-specific trends.
- Collaborated on assignments with 2 other interns while working remotely.

Projects

NASA Collaboration: Space Biology Research
NemaLife inc.
- Used Python to create plots and visual diagrams from data to support research findings.
- Annotated videos to monitor the health of *C. elegans* and document their responses on microchips.
- Collected and organized key statistics in Excel for the final NASA project report.

AI-Powered Machine Learning Dashboard
Python, Streamlit, scikit-learn, Pandas, NumPy, Matplotlib
- Built a Streamlit web app for end-to-end machine learning on CSV data, supporting both classification and regression tasks.
- Implemented automated preprocessing and model training with scikit-learn pipelines, with Linear Regression predicting 94% of target variation and Random Forest Classification achieving 89% accuracy on test data.
- Integrated data visualizations including confusion matrix heatmaps, comparison scatter plots, and feature importance charts, plus model export/import and downloadable prediction files.

Cellular Automaton Simulator
Python Multiprocessing
- Developed a Python simulator that performs operations on matrices representing living and dead cells.
- Utilizes mathematical conditions and algorithms for determining the health state of the cell.
- Enhanced Python multithreading performance for parallel processing with 100% HPC test accuracy.

Technical Skills

Programming Languages
- Python, C, Bash

Software Tools
- Excel Spreadsheets, Microsoft Word, Microsoft PowerPoint