James Nesbitt

james22nesbitt@gmail.com | (517) 648-2421
linkedin.com/ | james-nesbitt.netlify.app

Education

University of Michigan   **Ann Arbor**
Bachelor of Science in Computer Science   *December 2025*

- **Relevant Coursework**: Data Structures and Algorithms, Web Systems, Intro to Machine Learning, Scientific Computing in R, Intro to Computer Organization, Programming and Intro Data Structures, Discrete Mathematics, Applied Linear Algebra, Introduction to Statistics and Data Analysis, Calculus II

Relevant Experience

Ford Motor Company   **Dearborn, MI**
Software Engineer Intern   May 2024-August 2024
- Worked in a team to develop an app that enables a user to search through a given database with simple natural language.
- Developed a RAG based LLM model through Vertex AI that turns text into SQL queries. Also developed the frontend interface using Angular 16

Projects

Stock Price Predictor with Machine Learning
- Collected Stock Ticker data with the Yahoo Finance API, trained data using cross-validation with Random Forest and KNN models to predict the price of any individual stock. Implemented application with a GUI using PyQt6
- Coded With Python, Pandas, NumPy, and Scikit-Learn, and PyQt6 for GUI

Signal Street
- Created a Full Stack Django application that relays import recent financial news surrounding the world markets, allows users to track their stocks, as well as provided detailed quotes and statements for any stock, as well as utilizing the stock Price predictor mentioned above and two other models coded using two other ML models I developed.
- Coded With Django, Python, styled with CSS, SQLite, two other ML models coded with TensorFlow Gradient Boosted Tree Mode and XGBoost Random Forest Classifier

Google Travel Assistant
- Accepted to participate in a Google Ai x Mhacks hackathon, where my team and I developed an app that can tell you where you are given any picture, as well as directions to there, and can generate an itinerary given the users preferences
- Frontend built using React, powered by Gemini, backend designed with Python Flask

Machine Learning Repository
- During my Machine Learning journey, I have developed many different machine learning models, some from scratch including Transformers and SVMS, as well as with APIs such as OpenAI, Pytorch, Scikit-learn, and TensorFlow.
- Coded with Python

Code Buddy
- Wrote my own VS code extension to help with the code development process. It utilizes an LLM; some features include helping in documenting code, help with styling for web development, fix errors in logic when writing mathematical code, and turn code into memory safe RUST code.
- Coded with Typescript and uses the Gemini API

Additional Skills

Languages: C++, Python, Java, JavaScript, HTML/CSS
Framework/Runtime Environment, Libraries: TensorFlow, Sci-kit learn, ReactJS, NodeJS, Django, XGBoost, Flask, TensorFlow, Scikit-Learn, OpenAI API, Gemini