Nihar S. Ogale

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EDUCATION

University of Michigan   **Ann Arbor, Michigan**
B.S.E in Computer Engineering   *Expected Graduation, May 2027*
- o **Concentrations:** Machine learning/Embedded Systems
- o **GPA:** 3.99/4.00, *Dean's List*
- o **Related Coursework:** Data Structures & Algorithms, Intro to Differential Equations, Multivariable Calculus, Linear Algebra, Discrete Math, Intro to Business Basics

EXPERIENCE

Consortium for Monitoring, Technology, and Verification   **Ann Arbor, Michigan**
Research/Lab Assistant   *Dec 2023 – Current*
- Utilized C++ to create search paths for a 3-D printed radiation drone, aiding in the detection of radionuclides and other radioactive sources
- Utilized Fusion360 to design and 3-D print radiation shielding collimators for Gamma-ray Spectrometers allowing for more accurate radiation measurement by as high as 50%
- Developed tests using SolidWorks to Calibrate 4 Bambu X1 carbon 3-D printers to ensure cleaner 3-D prints

Radiant AI   **Rochester Hills, Michigan | Remote**
Software Engineering Intern   *Jun 2024 – Aug 2024*
- Utilized Python and TensorFlow to develop efficient algorithms that observe patterns in data using Neural Networks and Clustering algorithms
- Organized Client meetings and spreadsheets on excel which allowed for more efficient workflow and better customer interactions

Personal Tutor   **Rochester Hills, Michigan**
Calculus Tutor   *Jun 2019 – Aug 2019*
- Held online and in person tutoring sessions to assist High school students and undergraduate students in Calculus and Algebra
- Monitored student progress in Microsoft Excel to aid in mental comprehension and strengthen areas of weakness and ensure all students ended with at least a B+

PROJECTS

Personal Finance Tracker   **Rochester Hills, Michigan**
Personal Project   *Jun 2024 – Current*
- Developed a personal finance tracker to allow users to sign in and track their finances as well as an option to assist with how much they should invest and save in their account
- Utilized Django's Api to create a full stack application with React.js for the frontend and Node.js for the backend

Car Price Predictor   **Rochester Hills, Michigan**
Personal Project   *May 2024 – Current*
- Trained a mathematical model to predict the price of used cars using Neural Networks and Linear Regression algorithms
- Utilized Python and TensorFlow to improve the model and achieve above 80% accuracy for detecting the price of a used car

ACTIVITIES AND LEADERSHIP

Michigan Student Artificial Intelligence Lab   **Ann Arbor, Michigan**
Group Project Lead   *Aug 2023 – Current*
- Used Python and Google Colab to create a perceptron with a Cincinnati car crash database trained with Neural Networks, and Polynomial Regression

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++, C, Firebase, TensorFlow
Tools: Visual Studio Code, Jupyter Notebooks, Deepnote, Google Colab