

Jotham Teshome

(248)880-1445 • East Lansing, Michigan • teshomejotham@gmail.com • [linkedin.com/in/jothamteshome](https://www.linkedin.com/in/jothamteshome)

EDUCATION

Michigan State University	Jan 2023 – April 2024
Master of Science, Computer Science	GPA: 3.85
<ul style="list-style-type: none">Relevant Coursework: Natural Language Processing, Computer Vision, Pattern Recognition, Deep Learning, Algorithmic Graph Theory, Distributed Systems	
Michigan State University	Sep 2019 – Dec 2022
Bachelor of Science, Computer Science	GPA: 3.69
Minor, Business	
<ul style="list-style-type: none">Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Algorithm Engineering, Web Application Development, Database Systems	

PROJECTS

Portfolio Website <i>React.js, Bootstrap</i>	May 2024
<ul style="list-style-type: none">Designed a responsive portfolio website to display my experience and projects using React.js and Next.js to ensure optimal performance and navigation across devicesIntegrated Bootstrap for a modern design and utilized Framer Motion to create dynamic animations to enhance user experience	
Classification of Pokémon Sprites <i>Python, OpenCV, PyTorch</i>	Sep 2023 – Dec 2023
<ul style="list-style-type: none">Collaborated with peers to design a CNN model using PyTorch to classify Pokémon from their sprite imagesPreprocessed battle images using OpenCV for edge detection and shape analysis to identify and isolate PokémonAchieved a classification accuracy of 86% on preprocessed Pokémon sprite images	
Predicting NFL Betting Odds <i>Python, BeautifulSoup, Scikit-learn, PyTorch</i>	Sep 2023 – Dec 2023
<ul style="list-style-type: none">Cooperated with others to design various models using Scikit-learn and PyTorch to predict NFL game point spreadsDeveloped a dataset using BeautifulSoup to scrape game data from Pro Football Reference to use for model trainingAchieved results comparable to sportsbook predictions, with an MSE of 193.8 and R^2 of 0.137 with our neural network	
Identifying and Removing Toxic Comments <i>Python, TensorFlow</i>	Jan 2023 – April 2023
<ul style="list-style-type: none">Partnered with a peer to design an RNN model using TensorFlow to identify toxicity in online commentsGenerated subword embeddings using FastText to better detect potential variations of toxic words in commentsAchieved a word-level classification accuracy of 91% using trigram embeddings in our multi-appearance word modelDeveloped an automated system to censor toxic words to improve the efficiency of real-time content moderation	

EXPERIENCE

MSU College of Engineering <i>Flask, HTML, CSS, JavaScript</i>	Sep 2023 – April 2024
Graduate Teaching Assistant	
<ul style="list-style-type: none">Evaluated assignments to uphold rigorous academic standards in the Web Application Development courseAssisted students with helpful insight on GitLab by describing the uses for HTML, CSS, and JavaScript in front-end design, including topics such as responsive sizing and dynamic retrieval of dataImproved students' understanding of Flask for back-end development by 7% through hosting regularly scheduled office hour sessions	
MSU Federal Credit Union <i>Flutter, Dart, SQL</i>	Sep 2022 – Dec 2022
Software Engineering Intern	
<ul style="list-style-type: none">Collaborated with colleagues to enhance MSU Federal Credit Union's mobile banking apps using Flutter, Dart, and SQLDesigned an aesthetically pleasing user interface using Flutter and Dart to enhance customers' banking experienceImplemented a modern peer-to-peer transfer system featuring usernames, QR codes, and NFC to increase usabilityCreated a system using Google Places API to notify users of deals at local businesses based on shopping patterns	

SKILLS

- Python, C++, C, JavaScript, Dart, Node.js, React.js, Flask, Flutter, CSS, HTML, Bootstrap, OpenCV, PyTorch, TensorFlow