Jabir Mustahid

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EDUCATION

University of Waterloo   Waterloo, Ontario
Bachelor of Mathematics (BMath)   *Sep 2022 - April 2027*

EXPERIENCE

Founder   Aug 2021 – Present
Toruchaya Foundation   *Dhaka, BD*
- Built a platform that focuses on helping underprivileged children and educate them in hopes of reducing education inequality in Bangladesh.
- Lead a donation project of reaching out to a free school and provide school supplies over **170 children**.
- Manage **social media platforms** and host awareness programs.

Content Contributor   Aug 2022 – Present
ZNotes   *London, UK (remote)*
- Provide IAL notes and revision contents on Physics and Chemistry.
- Help students in IGCSE and IAL in official Discord server.

PROJECTS

TicTac.AI | *Python*   April 2023 – May 2023
- Coded the basics of Tic Tac Toe, for human vs human mode
- Developed a **Minimax Algorithm** without external libraries, utilizing recursive exploration of all possible moves
- Creates a Game Tree with it and finds the best move
- Tested intensively with 0% loss
- Built variations: Computer vs Computer, and a position analyser to analyze the board mid-game

Deep Learning Fashion Image Classifier | *Python, Tensorflow, Keras, Numpy, Matplotlib*   May 2023
- Developed a deep learning model using TensorFlow to classify fashion images from the Fashion MNIST dataset
- Constructed a sequential model architecture with multiple layers, including a flattening layer and dense layers with ReLU and softmax activations
- Processed and prepared the training and test datasets using TensorFlow Datasets
- Trained the model for multiple epochs using batch training to improve performance
- Tested the model with 10,000 datasets with 82% accuracy

Oil Price Prediction | *Python, Matplotlib, Pandas*   July 2022 – August 2022
- Built a Linear Regression Model without external libraries
- Reads data from CSV file
- Considers factors such as holidays, time of the year, temperature etc
- Recognizes patterns and can be used to extrapolate

Movie Rating Predictor | *Python*   August 2022 – September 2022
- Coded a **K Nearest Neighbors model** to predict the rating of a movie
- Reads CSV files and use multiple variables to estimate its rating
- Tested the model with an accuracy of **66.4 percent**

To Do List | *HTML, CSS, JavaScript, React*   August 2022 – September 2022
- Coded a to do list, using react hooks and functional components
- Comes with a filter for completed and uncompleted tasks

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL, JavaScript, HTML, CSS, Racket
Frameworks and Libraries: React.js, Node.js, scikit-learn, Pandas, NumPy, Matplotlib, TailwindCSS, Bootstrap, Three.js, Tensorflow, Keras
Developer Tools: Github, VS Code, Figma, Blender