Soham Kundu

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Education

University of Wisconsin-Madison Madison, WI

Bachelor of Science in Computer Engineering *Expected May 2026*

- Relevant coursework- Data Structures and Algorithms, OOP, Digital Systems, Operating Systems, Transistors, Synchronous Sequential Logic Design, Machine and Assembly-Language Programming, AP CSA

Eagan High School - GPA: 3.90/4.00

Experience

AI Trainer/Evaluator June 2024 – Present

Outlier AI *Remote*

- Completed over 100 tasks across 4 high-impact AI projects, advancing machine learning models in industry
- Evaluated outputs from Large Language Models (LLMs), ensuring accuracy across diverse applications
- Provided expert-level feedback on model performance, identifying optimization opportunities to improve precision, reducing error rates and redundancies, ensuring appropriate responses, and driving continuous model improvement
- Collaborated with cross-functional teams to deploy AI-driven solutions across multiple applications, including ChatGPT, Gemini, and other LLMs, significantly improving AI model's accuracy and instruction-following

Referee Feb. 2024 – Present

Ultimate Frisbee Association *Minneapolis, MN*

- Officiated professional Ultimate Frisbee, collaborated closely with a team of referees to ensure fair gameplay and sportsmanship, while regularly communicating with players and coaches to maintain order and resolve conflicts.
- Made high-stakes decisions under intense pressure, demonstrating strong judgment, quick thinking, and the ability to remain calm, while maintaining professionalism and authority in interactions to uphold the integrity of the game

Projects

JetBot Autonomous Robot

- Built a functional JetBot using a Jetson Nano, 3D-printed components, and custom electrical assembly
- Designed the robot's chassis using 3D printing, and assembled the components with soldered electrical connections
- Programmed autonomous navigation using Python and Jupyter Notebook, enabling the robot to navigate cluttered and elevated environments through real-time camera input and motor control
- Achieved an end result of a highly responsive, AI-powered robot capable of complex obstacle detection, avoidance, and object recognition

Machine Learning Activity Recommender | *github.com/sohamkundu27/ML-Activities-Recomender-System*

- Designed and developed a dynamic full-stack web application using Python, Flask, HTML, CSS, Bootstrap, and SQL, allowing users to input their age, gender, and time of day, and receive personalized activity recommendations
- Created a synthetic, custom dataset with over 10,000 data points using Pandas and NumPy
- Trained a machine learning model using Scikit-learn's MultiOutputClassifier with a RandomForestClassifier (500 estimators, max depth of 3), achieving 75% accuracy and a 25% hamming loss on test data
- Built an end-to-end ML pipeline with train-test splits and model evaluation for optimal performance.
- Generated a tailored activity list using ChatGPT, incorporating unique options based on user preferences, and displayed how well each activity matched users through a custom percentage-based scoring system
- Implemented a robust SQL database to store user inputs, providing behavior trends and model improvements

Stock Price Checker | *github.com/sohamkundu27/Stock-Tracker*

- Developed a full-stack web application using Python, Flask, HTML, and CSS that allows users to retrieve and visualize stock price data based on ticker symbols and specified intervals (daily, weekly, or monthly).
- Used Alpha Vantage API to fetch real-time stock data and time series info, with error handling for invalid tickers.
- Implemented dynamic data visualization using Matplotlib, displaying stock price trends in an intricate graph
- Designed a responsive interface with Bootstrap, enhancing the user experience on both desktop and mobile devices.

Technical Skills

Languages: Python, Java, Javascript, HTML, CSS, MongoDB, SQL
Frameworks/Libraries: Flask, React, Node, Django, Pandas, NumPy, Sklearn, Bootstrap, Vite, Matplotlib, Express
Developer Tools: Machine Learning, Git/Github, Jetson Nano, Blender, CAD, MacOS, Windows, Linux