

AADITI MENON

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EDUCATION

Symbiosis Institute of Technology | Nagpur

B.Tech Computer Science and Engineering (2023-27); GPA: 8.55

Indian Institute of Technology, Madras | Chennai

BS Data Science (Foundation); GPA: 7.25

SKILLS

- Languages: Python, SQL, C
- Frameworks: Pandas, Numpy, Matplotlib
- Tools: Power BI, Power Point, Excel, SQLPlus
- Platforms: Jupyter Notebook, Visual Studio Code
- Soft Skills: Problem Solving, Attention to details, Analytical Thinking, Time Management and Team Collaboration

PROJECTS

Air Quality Index Prediction | [LINK](#)

- Developed a machine learning model to predict Air Quality Index (AQI) using real-time sensor data.
- Utilized Python, pandas, NumPy and Kaggle API for data processing and model building.
- Performed data preprocessing, exploratory data analysis (EDA), and feature optimization.
- Evaluated model performance with metrics like MAE, and RMSE to enhance accuracy.

Waste Sorting Using Computer Vision | [LINK](#)

- Developed a computer vision model to classify and sort waste into recyclable and non-recyclable categories.
- Utilized Python, TensorFlow/Keras, OpenCV, and NumPy for image processing and model training.
- Performed dataset augmentation, preprocessing, and hyperparameter tuning to improve performance.
- Evaluated model accuracy using metrics like precision, recall, and F1-score.

Forest Fire Detection Using Satellite Imagery | [LINK](#)

- Developed a deep learning model to detect forest fires using satellite imagery for early disaster response.
- Leveraged Python, TensorFlow/Keras, and satellite image datasets for model training and validation.
- Applied image preprocessing, CNN-based architecture, and data augmentation to enhance accuracy.
- Evaluated model performance using metrics like accuracy, precision, and confusion matrix.

CERTIFICATES

Programming and Data Science (IIT Madras) | [CERTIFICATE](#)

- Learned the fundamentals of Python programming, including control flow, loops, and functions.
- Developed foundational knowledge of mathematics and statistics for data science applications.

Database and SQL (Infosys) | [CERTIFICATE](#)

- Gained hands-on experience in database design, SQL queries, and data manipulation techniques.
- Developed skills in creating, optimizing, and managing relational databases using SQL.

EXTRA CURRICULAR

Event Manager, GitHub Copilot Workshop

- Managed the GitHub Copilot workshop, ensuring seamless event execution and participant engagement.
- Coordinated event logistics, hosted the event and oversaw guest arrangements

