Aditya Mallesh

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EDUCATION

National Institute of Technology Karnataka Surathkal — Surathkal, Karnataka
Master of Technology in Computational and Data Science — *Ongoing*

Savitribai Phule Pune University — Pune, Maharashtra
Bachelor of Engineering in Electronics and Telecommunication Engineering CGPA:- 8.12 — *Aug. 2020 – May 2024*

Podar International School — Latur, Maharashtra
Senior School Certificate Examination: 82.16 — *June 2020*

Podar International School — Latur, Maharashtra
Secondary School Examination: 85.83 — *May 2018*

PROJECTS

Food Quality Monitoring System | *YOLOv8 algorithm, Streamlit, Python, Roboflow* — Jan. 2024 – Mar. 2024

- Led the development of a web application using Streamlit framework to monitor food quality in real-time.
- Implemented YOLOv8 model for object detection to analyze food quality through images, live webcam feeds, and video streams.
- Provided seamless prediction capabilities across various inputs, including static images, live webcam feeds, and video streams, enhancing accessibility and usability of the monitoring system

DataMorph | *Python, pandas, matplotlib, seaborn, scikit-learn, Streamlit* — March 2024

- Created a Python tool for data preprocessing, visualization, and exploratory data analysis (EDA), prioritizing user-friendliness and flexibility.
- Implemented CSV input functionality and advanced data preprocessing options, including handling missing values, duplicates, outliers, and normalization.
- Enabled through exploratory data analysis (EDA) with statistical summaries, correlation analysis, and diverse visualizations like histograms, scatter plots, and box plots, enhancing insights into data patterns and relationships.

Classification using CNN | *Python, pandas, matplotlib, seaborn, scikit-learn, Streamlit* — April 2024 - May2024

- Built a Convolutional Neural Network (CNN) from scratch for image classification tasks.
- Implemented data preprocessing and augmentation techniques to improve model generalization.
- Achieved performance evaluation using accuracy, loss curves, and confusion matrix visualization.

TECHNICAL SKILLS

Languages: Python, C++
Frameworks: Streamlit
Developer Tools: Git, VS Code, PyCharm,
Libraries: pandas, NumPy, Matplotlib