

AAMIR AZIM ANSARI

DATA SCIENTIST

» CONTACT

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» SUMMARY

Dedicated and highly motivated Data Scientist with over 2 years of experience in data science, machine learning, and computer vision. Holding advanced degrees in Computer Science and Statistics, I possess strong expertise in Python, SQL, deep learning, and data analysis. I have successfully developed and deployed end-to-end data solutions, including real-time applications for face detection and fitness monitoring. Proficient in tools like TensorFlow, Keras, OpenCV, and Tableau, I thrive in solving complex problems and driving data-driven decision-making. I am seeking challenging roles that offer continuous learning and professional growth in data science and machine learning.

» SKILLS

PROGRAMMING LANGUAGE: R, C++, Python, C, Java

MACHINE LEARNING & FRAMEWORKS:

Machine Learning, Deep Learning, Tensorflow, Keras, Scikit-learn, Numpy, Pandas, Librosa

COMPUTER VISION: OpenCV, Pillow, Mediapipe, YOLO, VGG16

WEB DEVELOPMENT: Html, Css, JavaScript, React, Flask, Streamlit

DATA ANALYSIS: Tableau, Excel, PowerBI

DATABASES: SQL

» EDUCATION

Central University of Tamil Nadu Dec. 2022 to May 2024
M.Sc Computer Science 2024

St. Xavier's College, Ranchi July 2019 to June 2022
Bachelor of Science Statistics 2022

St. Xavier's College, Ranchi July 2017 to June 2019
Intermediate of Science PCM 2019

» EXPERIENCE

Ambient AI Data Scientist

Apr. 2022 to Current

- Created multiple Grafana dashboards to analyze employee performance and to evaluate false positives generated by a deep learning model, providing insightful interpretations of the results.
- Reduced the False Positive from the Door State Classification and Person Presence Model by 30% and 12% respectively.
- Develop and train machine learning and deep learning models to improve product performance.
- Design and generate diverse data sets for training and testing models.
- Deploy machine learning models into production, ensuring seamless integration and optimal performance.
- Optimized and simplified the web data collection process by leveraging Python, employing efficient web scraping or API integration techniques to ensure seamless and effective data retrieval.
- Recognized and labeled objects in images using annotation tools such as Supervisely and LabelMe.

» PROJECTS

Door State Classification

- Developed a Deep Learning model using CNN to identify the state of a door like open or closed and got an accuracy of 98.7%.
- I have collected the data for mainly glass doors with open and closed doors images.
- I have annotated the images using Supervisely and LabelMe.
- I cropped the images and organized them into corresponding folders. Then, I split the data and trained the model.
- I have trained the dataset with the CNN having total of nine layers three convolutional layers, three pooling layers, one flatten layer, and two dense (fully connected) layers

Face Detection

- Developed a deep learning model using VGG16 for accurate face detection and bounding box regression.
- Trained the model on a custom dataset annotated with LabelMe, achieving a classification loss of 0.000005 and regression loss of 0.0011.
- Implemented the project using TensorFlow/Keras and Python, optimizing for accuracy and efficiency.
- Showcased expertise in computer vision, transfer learning, and model optimization for real-time applications.
- Utilized advanced techniques in custom dataset creation, resulting in precise face localization.

Position tracking and Exercise Monitoring

- Developed a Real-time Exercise Tracking Application: Utilized MediaPipe for accurate monitoring of exercises like jumping jacks and push-ups, with real-time visual feedback on form and repetitions.
- Implemented User Authentication: Created secure sign-up, login, and logout functionalities for personalized exercise tracking.
- Integrated Camera Control: Managed webcam activation for privacy, ensuring camera use only during exercise sessions.
- BMI Calculator and Health Insights: Added a BMI checker and an About page to provide users with additional health-related information.