Asma Shaikh

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# **Educational Qualification**

Dwarkadas J. Sanghvi College of EngineeringVile Parle, Mumbai

*Currently pursuing a bachelors in CSE (DS) with a CGPA of 8.395.* *2023-2026*

Thakur Polytechnic Kandivali, Mumbai

*Scored 91% in Computer Engineering Diploma. 2020 - 2023*

# **Internships**

AIML Intern June, 2024 - August, 2024

*OnMyOwnTechnology*

* Developed multiple machine learning projects leveraging advanced algorithms, enhancing predictive accuracy and real-time data analysis capabilities.
* Engineered and deployed Raspberry Pi-based solutions for real-world applications.
* Designed and built dynamic frontend websites, enhancing user experience and interface responsiveness to align with modern web standards.

Web Developer Intern July, 2022 - August, 2022

*Nibodh Educare*

* Developed and launched a responsive frontend website, enhancing user engagement.

# **Projects**

# **Predictive Diabetic Retinopathy Diagnosis** *| Python, TensorFlow, Keras*

* Developed a convolutional neural network (CNN) using TensorFlow and Keras to classify diabetic retinopathy images, involving image loading, preprocessing, and dataset creation.
* Designed and implemented a model architecture with convolutional, pooling, and dense layers, utilizing data augmentation techniques to enhance generalization and accuracy.

# **Bharatnatyam Posture Classification** *| Python, TensorFlow, Keras, NumPy, Matplotlib, PIL.*

* Developed a deep learning model for Bharatanatyam pose classification using TensorFlow and Keras, incorporating data augmentation and performance visualization techniques.
* Implemented image preprocessing and prediction accuracy analysis to enhance model reliability.

# **Credit Card Fraud Detection** *| Python, Pandas, NumPy, Matplotlib, Seaborn, and Scikit-learn*

* Developed a fraud detection system using a Random Forest Classifier on imbalanced credit card transaction data, achieving robust model evaluation through metrics such as accuracy, precision, and recall.
* Implemented data preprocessing and visualization techniques to enhance model performance and interpretability.

# **Students Food Preference** *| Data Visualisation |NumPy, Matplotlib, Seaborn and Tableau*

# Utilized advanced data analysis and visualization techniques with Python to explore and preprocess a dataset on food choices, identifying patterns and trends through the application of libraries such as Pandas, NumPy, Matplotlib, and Seaborn.

# Implemented comprehensive data cleaning and imputation strategies, alongside insightful visualizations to facilitate understanding of key dietary behaviors and preferences.

# **Agromeet** *| Android Application*

* Agromeet is a cutting-edge farm assistant application that streamlines agricultural management with real-time data and AI-driven insights.
* Empowering farmers to maximize productivity and sustainability, Agromeet revolutionizes the way farming is done.

# **Certifications**

* Google Digital Unlock
* J.P. Morgan Software Engineering Virtual Experience on Forage

# **Extra-Curricular**

* Chairperson -ISTE June 2022-May 2023

Served as the distinguished Chairperson of the ISTE Committee, leading with innovation and excellence

* Member-ISTE June 2021-May 2022

Contributed as a dedicated member of the ISTE committee, fostering innovation and excellence in technology and education.