Jiten Bhaveshkumar Bhalavat

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OBJECTIVE

I am a technology enthusiast with practical experience in various computer languages. I am currently applying to your prestigious university's Master's program to enhance my knowledge in critical IT areas such as Artificial Intelligence and Technology. My goal is to improve my own productivity and contribute to meeting organizational goals through qualities such as discipline, time management, and a commitment to quality.

EDUCATION

Charotar University of Science and Technology **JUL2020-MAR2024**
Bachelor of Technology: Information Technology
CGPA: - 8.90

Gujarat Secondary & Higher Secondary Education **JUN2018-MAR2020**
Standard-12th
Percentage: - 68%

Gujarat Secondary & Higher Secondary Education **JUN2017-MAR2018**
Standard-10th
Percentage: - 83%

EXPERIENCE

Machine Learning Intern | NXON Pvt. Ltd. | May 2022 -June 2022

- Developed a deep learning model with multiple Convolutional and pooling layers, followed by fully connected layers for classification.
- Utilized dropout regularization to prevent overfitting and improve the model's generalization ability.
- Trained the model using the Adam optimizer and cross-entropy loss function.
- Achieved high accuracy (over 99%) on the MNIST test set, demonstrating the effectiveness of CNNs for image classification tasks.
- Compared the performance of different model architectures and hyperparameters to fine-tune the model and improve its accuracy.

Data Science and Machine Learning Intern | UniConverge Technologies Pvt. Ltd | August 2023 - September 2023

- Developed time series forecasting models using LightGBM and Random Forest regressors to predict traffic patterns at road junctions.
- Engineered features like day of week, hour of day, and holidays from raw timestamp data to improve model accuracy.
- Optimized hyperparameters like number of estimators and learning rate through grid search cross validation to reduce overfitting and improve generalizability.

Machine Learning Engineer | Plutomen Technologies Pvt. Ltd | September 2023 - Present

- Designed and implemented an unsupervised anomaly detection system utilizing state-of-the-art techniques, including Isolation Forests and Autoencoders, to identify irregular patterns in diverse datasets.
- Optimized model parameters and fine-tuned algorithms to enhance the accuracy and efficiency of the anomaly detection system.
- Effectively communicated results to non-technical stakeholders, enabling informed decision-making and proactive response to potential anomalies.

PROJECTS

Brain tumor segmentation in MRI images using U-Net | May 2023 – August 2023

- Developed a deep learning model based on U-Net architecture for brain tumor segmentation in MRI images.
- Preprocessed the MRI images by normalizing intensities and resizing them to a uniform size.
- Augmented the data using various techniques, including rotation, shifting, and flipping to improve the model's robustness.
- Trained the U-Net model using a binary cross-entropy loss function and the Adam optimizer.

RSNA Screening Mammography Breast Cancer Detection | January 2023 – April 2023

- Developed a machine learning model based on the EfficientNet architecture for breast cancer detection in digital mammogram images.
- Preprocessed the images by converting them from DICOM format to PNG format, extracting the region of interest (ROI), and normalizing the intensities.
- Augmented the data using various techniques, including rotation, shifting, and flipping to improve the model's robustness.
- Trained the EfficientNet model using a binary cross-entropy loss function and the Adam optimizer.
- The model achieved a test accuracy of 95%, which is comparable to the state-of-the-art results.

Emotion Detection | December 2021 - March 2022

- A ML and deep learning based project
- Using Python Libraries such as OpenCV, Keras and matplotlib.
- Using the Python OpenCV Library the camera will detect the face and compare it to the dataset and predict the emotion like 'Anger', 'Fear', 'Surprise', 'Happy' and 'Sad.

Self-Learner's Hub | September 2021 - November 2021

- HTML, CSS, Bootstrap and JavaScript
- This is an Educational Website , we had collected all the resources from the YouTube and gathered here.

CERTIFICATIONS

- Machine Learning Specialisation By Andrew Ng (Coursera)
- Data Science For Engineers (NPTEL)
- Recognized as a meritorious student for securing 2nd rank in the IT department in 2nd Year
- AWS Academy Machine Learning Foundations
- Introduction to NumPy by DataCamp
- Data Manipulation with Pandas by DataCamp
- Introduction to Data Visualization with Matplotlib by DataCamp

INVOLVEMENT

Charusat Learning and Development Club, ML Core Team |

Data Science Club @ Charusat, Lead

SKILLS

- Frontend: HTML, CSS, JavaScript, ReactJs
- Backend: Nodejs and Spring boot
- Database design and administration
- Database: MySQL, Mongo DB and DynamoDB
- Languages: C, C++, Python and Java
- Understanding of network protocols and configurations
- Network security concepts and practices
- Knowledge of cryptography and cybersecurity principles and best practices
- Machine Learning, Data Science, Deep Learning
- Python Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Seaborn, Keras.
- ML Pipeline: Exploratory Data Analysis, Data-Preprocessing,Data Visualization.