HARSHVARDHAN BHARAT JADHAV

Data Scientist

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EDUCATION

- BS in Information Technology, Vidyavardhini's Annasaheb Vartak College, Vasai **2022**

CERTIFICATIONS

- IBM Data Science Professional Certificate
- Data Science Master Program by Simplilearn
- Deep Learning Specialization (In progress)
- IBM AI Engineering Professional Certificate (In progress)

SKILLS AND TECHNOLOGIES

- Data analysis and manipulation: Python, Pandas, NumPy, SQL, scikit-learn
- Data visualization: Matplotlib, seaborn, Plotly
- Machine learning: Supervised and Unsupervised learning, Regression, Classification, Clustering
- Deep learning: TensorFlow with Keras, fastai, PyTorch
- Python programming, SQL querying
- Image processing: OpenCV, NumPy, Pillow
- Communication with implementing graphical representation, reports

PROJECTS

- **OCR-based Named Entity Recognition Pipeline:** Systemized and initialized a Pytesseract OCR model to identify texts, achieving an **80%** reliability rate based on evaluations of character and word error rates.
  - Incorporated a pre-trained Named Entity Recognition (NER) model to extract entities from the identified texts, interpreted the information by text mining and web searches to collect auxiliary information.
- **SpaceX Falcon 9 Landing Predictions Capstone Project:** Collected data from APIs, conducted EDA, SQL querying and created an interactive dashboard, developed ML model with **90%** accuracy and prepared a comprehensive presentation report.
- **Face Recognition Classification:** Designed and prototyped a CNN model to identify **40** faces, Implemented TensorFlow, Keras and NumPy and preprocessed images for training model resulting in **89**% accuracy.
- **Car Integrity CNN**: Developed an image classification model using transfer learning for classifying car images by condition and deployed the model on HuggingFace, achieving **90%** to **95%** accuracy.
- **Ecommerce Spends Analysis**: Analyzed personal Amazon order data using Pandas and Plotly for identifying high value products, uncovered impact of tax at almost **10%** on items.
- **Cognizant Artificial Intelligence Virtual Experience Program on Forage:** Modeled data to forecast estimated levels of stocks required for a store, built model with **23%** loss.
- **British Airways Virtual Experience Program on Forage:** Retrieved company insights through web scraping, predicted customer buying behavior with tree based model performing at **86%** precision.
- **Mercedes-Benz Greener Manufacturing:** Extracted, scaled and transformed anonymized features, creating a boosted model that achieved a **54%** score on test data.
- **Diabetes Prediction**: Preprocessed and transformed data, trained and tested **7+** classification models, achieving **80%** accuracy score.

ACHIEVEMENTS AND AWARDS

- Built a regression model using engineered features and boosting algorithms for predicting housing prices, achieved top **2%** rank on leaderboard.
- Qualified for Coursera first ever Data Science coding competition, a retention prediction challenge, scored **72%** accuracy.