Harshvardhan Jadhav

Machine Learning Engineer

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EXPERIENCE

Machine Learning Intern **2023**
Prodigy InfoTech **Remote, Mumbai**

- Created a prototype web app and deployed it for predicting customer segments using clustering algorithms, provided **2** interactive plots for user analysis.
- Developed a hand gesture recognition model to identify different types of hand gestures trained over **16k** images with a pre-trained resnet34 and a custom CNN with **1.7 millon** parameters, enveloped the model into a web app to provide prediction on user inputted image.
- Trained a binary Image Classification model using Support Vector Machines by extracting feature weights from VGG16's ImageNet for predicting image dataset.

Machine Learning Intern **2023**
Ignitus **Remote, Europe**

- Reported directly to COO of the organization for the review and development of LMS resources and modeled a K-Means clustering algorithm over dataset consisting more than **1 million** records.

EDUCATION

BSc 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
Data Visualization: Matplotlib, seaborn, Plotly
Machine Learning: Scikit-learn, Regression, Classification, Clustering, Bagging and Boosting
Deep Learning: TensorFlow with Keras, fastai, PyTorch
Programming: Python, SQL
Image Processing: OpenCV, NumPy, Pillow

PROJECTS

- **KPMG Data Analytics Virtual Experience Program on Forage:**
  - Conducted data quality assessments and recommended **4** strategies to mitigate issues.
  - Performed EDA revealing insights across customer segments, modeled data for predictive modeling, designed a dashboard in Tableau with **3+** interactive plots and a presentation.
- **OCR-based Named Entity Recognition Pipeline:**
  - Systemized and initialized a PyTesseract OCR model to identify texts based on evaluations of character and word error rates, achieving an **80%** reliability rate.
  - 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 for deeper analysis.
- **Face Recognition Classification:**
  - Prototyped and designed CNN model to identify **40** faces, Implemented TensorFlow, Keras and NumPy to pre-process 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 Hugging Face, 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.
  - Prepared and deployed a dashboard with Streamlit creating a web app consisting of **4+** interactive plots for analysis.

ACHIEVEMENTS

- Created a Python module for generating subplots, packaged the module in a GitHub repository, reducing coding time for plotting by **40-45%**.
- Qualified for Coursera's first ever Data Science coding competition, a retention prediction challenge and achieved **72%** accuracy.