Kaumil Trivedi

Portfolio: https://kaumil.github.io/portfolio/ | Email: kaumil.trivedi97@gmail.com |

Career Objective

- A professional with 2 years in the domains of data science and machine learning, seeking to apply and hone my skills to develop end-to-end machine learning systems.

Skills

- Technical Skills: Python, MySQL, Tensorflow, Keras, Scikit-Learn, Numpy, Pandas, Git, Elasticsearch
- Languages Spoken: English, Hindi and Gujarati

Education

BACHELOR OF ENGINEERING, COMPUTER ENGINEERING **JUL 2014 – MAY 2018**

- Gujarat Technological University, India
- CGPA: 9.22/10

Work Experience

AI DEVELOPER **APR 2019 – PRESENT**

ARELI COMMERCE PRIVATE LIMITED, AHMEDABAD

- Working on a mobile app called "Frendy" where I created a search system using AWS Elasticsearch and maintaining a system with 60000 queries a month.
- Created a relevance sort algorithm for sorting products by custom metrics (promoting/demoting brands, price ranges, promotion of a particular product etc.)
- Worked alongside the mobile developers to insert event triggers to monitor the health of the application and provide analytics.
- Working on a recommender system using item-item collaborative filtering algorithm.

AI DEVELOPER **JUN 2018 – APR 2019**

TURABIT SOLUTIONS PRIVATE LIMITED, AHMEDABAD

- Worked on development of chatbots and developed API to make the chatbot install software applications on target machine as well as schedule the chatbot to perform a certain function at a time selected by the use
- Trained ML Models to perform text classification and determine the intent of the user query and trigger the necessary functions required to complete the requested task

DATA SCIENCE INTERN **DEC 2017 – JUN 2018**

SOFTVAN INC., AHMEDABAD

- Trained ML models for Insurance Fraud Detection, Loan Default Detection, Unsupervised Clustering as well as Object Detection using various architectures such as ResNet, AlexNet, and YOLO

Projects

BLOGGING WEBSITE **JUL 2020 – AUG 2020**

- Created a blogging website using Flask framework as well as used SQLAlchemy for building relationships and CRUD operations.
- Established a mechanism for a user to follow different people and have the posts of the followed people on the home page.
- Established an "Explore" feature where a user can explore different posts from all the users on the website in a descending order of the post timestamp.
- Established a "Search" feature using Elasticsearch where people can search for a keyword and have relevant posts displayed. Deployed on Heroku using PostgresDB and Searchbox ES add-ons.

EMOF_AI **JAN 2018 - MAR 2018**

- Web API which takes a sample video as an input, performs face recognition followed by classification
- Classifies the emotion of the detected face into 1 of 8 emotions viz. anger, disgust, fear, happy, sad, surprise, neutral and none (this is where no emotions are detected in the video frame)
- From the detected face, the gender as well as the age group of the person are also classified
- After the video processing, a Data Analysis Graph is generated which shows the proportions of the emotions grouped by the gender and the age group (adult, child, old and youth)

Publications

A HYBRID BINARY CLASSIFIER FOR PATTERN CLASSIFICATION **DEC 2018 – MAR 2019**

IEEE 5TH INTERNATIONAL CONFERENCE OF DATA SCIENCE AND ENGINEERING (ICDSE) 2019

- Presented a new hybrid binary classifier combining a decision tree with support vector machine. The resultant model has better accuracy and easy interpretability. Tested the hybrid model on 25 various UCI datasets to assess its performance and robustness
- Invited to publish the extended version of the paper in the Journal of the Indian Academy of Sciences, Sadhana (Springer) and working on extending the algorithm on multi-class classification and imbalanced classification framework

Independent Coursework

- Certified by Coursera for completing Deep Learning Specialization authored by deeplearning.ai
- Certified by Stanford Online in the course of Statistical Learning authorized by Stanford University
- Certified by Coursera in the course of Machine Learning authorized by Stanford University
- Certified by National Program on Technological Enhanced Learning (NPTEL) in Natural Language Processing authorized by IIT Kharagpur
- Certified by National Program on Technological Enhanced Learning (NPTEL) in Data Structures and Algorithms using Python authorized by IIT Madras

Extra–Curricular Activities

- Participated in the Smart India Hackathon 2017 and got certified by Department of Atomic Energy, India
- Participated and cleared Round 1 of TCS CodeVita Season V and got certified by Tata Consultancy Services