KARRY HARSH

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SKILLS

Moderate: Tensorflow, Keras, Data Visualization, Version Control, Linux., Flask, OOPs, NLP, CV, SQL
Proficient: Python, Sklearn, Numpy, Pandas, algorithms, Data modeling & Evaluation.

PROFESSIONAL EXPERIENCE

Capgemini **Bengaluru, KA**
Machine learning Engineer Jun. 2019 – Present

- Built an automated ticket classifier that automates 60% of ticket solving process using ticket summary.
- Built and designed a production-grade Ml application for ticket classification for multiple languages.
- Built multiple pre-trained GloVe embedding vectors used for model building for providing NLP solutions.
- Designed Database using MySQL as per the business requirements and functionality.
- Built Rest API for Incident routing to automate ticket incident solution based on its priority.

Capgemini **Chennai, TN**
Senior Software Engineer Oct. 2017 – May. 2019

- Implemented end to end DevOps automation pipeline for Build delivery as part of CI/CD.
- Implemented the latest java-based Design studio IDE for new deployment technique and Source control management integration using Bitbucket.
- Developed software programs, based on the functional requirement, by writing codes and unit testing the programs to ensure optimal performance and accuracy.

PROJECTS

Covid19 Intent recognition(end to end implementation)

- Developed a Data streaming pipeline using tweepy and Google maps API to collect tweets and the user Geo locations.
- Built LSTM, SVM, and Bertweet models for classifying the Intent of the user on Covid-19 as well as sentiment using NLTK packages
- Deployed the pipeline in the Heroku PaaS using streamlit and created dashboards for analyzing the data.

Machine Translation

- Built a DNN architecture as part of an end-to-end machine translation pipeline for English to French translation.
- Pre-processed the text to a sequence of integers as part of a pre-processing pipeline.
- Designed a DNN model after investigating various neural network architectures.
- The final model can translate English into French with 97.1% accuracy.

Image Captioning

- Created a CNN-RNN based architecture to automatically generate captions from images using MS COCO dataset.
- Pre-processed the image and caption for casting it to the PyTorch tensor for training the model.
- Resnet-50 is used as CNN-Encoder for generating embedded image feature vector and LSTM as RNN-Decoder fed with both image and caption embedded vector.
- The model is fed with the prediction pipeline which post-process the input image-caption pair to generate a caption for the image.

Blindness detection

- Designed a Deep neural network to identify the potential patients of diabetic retinopathy with retina images.
- Pre-processed the dataset to optimize the model for training and predictions.
- The model was trained in CNN using fine-tuned transfer learning with 74% evaluation metrics.

EDUCATION

Udacity & Coursera **MOOC**

AI Programming with Python
Computer Vision
Data Structures and Algorithms
Machine Learning Engineer
Natural Language Processing
Tensorflow specialization

Sathyabama University, Chennai **TN, India**
B.E. Electronics and Telecommunication Class of 2017
Publication: *Advanced Indigenous Refrigeration System*