GitHub: https://github.com/trilokida
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Triloki Gupta

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ACADEMIC PROJECT WORK

- **Sign Language Recognition based on Hands Symbols Classification**   -
  - Trained a AlexNet model to understand sign language for communication between hearing impaired and normal person. Real word dataset based on ISL(Indian Sign Language).
  - Key Areas : Data Augmentation, Convolutional Neural Network, AlexNet.

- **Stack Overflow Tag Prediction using Machine Learning.**   -
  - Suggest the tags based on the content that was there in the question posted on stack overflow.
  - Key Areas : NLTK, tf-idf, OneVsRest, Multi-label Classification, Logistic Regression.

- **Health Query Clustering using DBSCAN Algorithm**   -
  - Used web scraping to collect 3000 health query data containing Hinglish (Hindi + English) queries related to health issues and applied incremental clustering technique DBSCAN to cluster them using tf-idf vectorizer.
  - Key Areas : Web Scraping, DBSCAN Clustering, tf-idf vectorizer, NLTK Library.

- **Speaker Identification from Voice Using Deep Learning**   -
  - Identify the Identity of Speaker from his/her voice. Created voice dataset with 14 classes of size 14k.
  - Key Areas : Convolutional Neural Network, Recurrent Neural Network, LSTM, LibROSA.

WORK EXPERIENCE

- **ORMAE (Data Scientist)**   *May 2019 - Present*
  - **Customer Order Delivery Optimization**
    - Working on Projects in Supply Chain Network Optimization, Vehicle Routing Problem for multi-pickup, and delivery within time windows.
    - Understanding Business problems and working on data pre-processing and post-processing for Optimizer using Pandas, NumPy, List comprehension, SQL, API, etc.
  - **Used Car Price Prediction**
    - Trained a Machine Learning Model which predict the sale price of used car.
    - Recommendation system which recommends a car based on a query.
    - Key Areas : Web scraping, Data pre-processing, XGBoost, LightGBM, Ensemble model, DBSCAN, SpaCy, etc.
  - **Trade Promotion Optimization**
    - Build a Machine Learning Model which predict Multiplier/Uplift for Optimizer.
    - Key Areas : Pandas, Data Pre-processing, Random Forest Regressor, Gradient Boosting Regressor, etc.
  - **RouteCap (Product)**
    - Working on pre-processing, post-processing and built automatic code which will fetch distance, time between two geo coordinates and store in DB.
    - Key Areas : Pandas, K-means, MongoDB, Docker, MinIO, Flask, RabbitMQ, Redis, etc.

TECHNICAL SKILLS

- **Language:**   Python, R, Java, C
- **Database:**   Oracle, MongoDB
- **Packages:**   Scikit-learn, Pandas, SciPy, Seaborn, TensorFlow, Keras, NLTK, OpenCV
- **Big Data:**   PySpark, Hadoop MapReduce, Pig

CERTIFICATE

- Deep Learning Specialization(deeplearning.ai - 5 courses)
- Natural Language Processing(deeplearning.ai - 4 courses)

EDUCATION

- **Master Of Technology**   *July 2017 - June 2019*
  National Institute of Technology Trichy - M.Tech. Data Analytics
  - Cumulative Grade Point Average (CGPA) : **7.9**
- **Bachelor Of Technology**   *August 2013 - June 2017*
  Dr. A.I.T.H., Kanpur - B.Tech. Computer Science & Engineering.
  - Percentage : **72.80**
- **H.S.C.**   *June 2013*
  Walther Inter College - Jaunpur(U.P.)
  - Percentage : **78.40**
- **S.S.C.**   *June 2011*
  Walther Inter College - Jaunpur(U.P.)
  - Percentage : **73.50**