Lori Srivastava | Data Scientist

Bengaluru, India

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TOTAL IT EXPERIENCE - 5+ years

Dimaag AI   **Bengaluru, India**
Software Engineer - AI   *Jan 2022 - PRESENT*
- Robot training using various Neural Network Models and Computer Vision.
- Working with labelling team to understand and label the image data.
- Documentation and streamlining of project activities.

Accenture   **Bengaluru, India**
Application Development Engineer   *May 2019 – Nov 2020*
- Research and implementation of Machine Learning models for NLP and algorithms as per the client requirement.
- Working on various ML algorithms to fetch the result on large data set and analysing the performance.

R Labs   **Budapest, Hungary / Bengaluru, India**
Analyst   *Jun 2017 – Apr 2019*
- Deployed as a primary resource as a Migration Execution Lead to enhance the productivity and perform migration activities from Oracle to HANA Pig/Hive/Oozie pipeline

ITC Infotech   **Bengaluru, India**
Associate IT Consultant   *Nov 2015 – Jun 2017*
- Creating database reports

TECHNOLOGY STACK

Machine Learning Models	UNET, CNN, Logistic Regression, Bagging Boosting Techniques, LSTM, RNN, SVM, Linear Regression, Autoencoder
Programming Language	Python
Frameworks & Libraries	TensorFlow, PyTorch, OpenCV, scikit-learn, Matplotlib, Pandas, Numpy
Solutions	Computer Vision, NLP, Object Detection, Image Processing
Data Techniques	Data Cleaning, Data Preparation

PROJECTS

Project X2 - Autonomous Grapevine Pruner Training   *Jan 2022 - PRESENT*

Objective : Detection of trellis wires using images, robot training for Image Interpretation. 3D point cloud generation reconstruction from single image based on image retrieval and drawing 3D graph using Black colour detection.

Models Used : UNET, Hough lines.

Evaluation Parameter : IOC

Roles & Responsibilities :
- Prepared the captured images by labeling the trellis wires using LabelMe tool.
- Trained 500+ images using UNET model.
- Experimented and tried various methodologies like Hough lines but went ahead with UNET as it proved better accuracy.

- Detection of 2D point from images to point cloud and filtering out tree objects from the images.
- Getting the disparities from the images to get the details of depth.
- Used OpenCV for converting to different image colour formats - RGB and HSV.
- Detection of colour using upper and lower limit of black colour.
- Plotting 3D graph using mplot3d toolkit.

FAQ Retrieval System   *Jun 2020 - Nov 2020*

Objective : To deploy an accurate and efficient model for FAQ retrieval on the Production Environment.
Models Used : Bag of word, TF-IDF Vectorizer, and Word2vec.
Evaluation Parameter : Accuracy, Time (in secs)
Roles & Responsibilities :
- Prepared and cleaned the data for stop words, empty spaces, alpha numeric, numeric, punctuation, etc.
- Implemented the aforementioned models and tested them for accuracy and time taken to run.
- Used Cosine similarity to gauge the similarity between questions.

Questions Pair Similarly   *Jan 2020 - Jun 2020*

Objective : To find similar pair of questions
Model Used: Logistic Regression, Linear SVM, GBDT.
Evaluation Parameter : Log loss
Roles & Responsibilities :
- Understanding the real world business problem.
- Understanding business objectives and constraints.
- Checking on evaluation parameter.
- Splitting of trained and test data and splitting them.
- Performing feature engineering.
- Training machine learning algorithms with all features.

Review Sentiment Analysis   *May 2019 - Dec 2019*

Objective : To identify the sentiment of a review - whether positive or negative
Models Used : Bernoulli Naive Bayes, SVM, Logistic Regression
Evaluation Parameter : Precious Recall Log Loss AUC Curve, Confusion Matrix
Library used: Sklearn, Gensim, Numpy, Pandas, NLTK, Seaborn, Matplotlib
Roles & Responsibilities :
- Checking for null values.
- Visualization of data using graphical method and determine positive and negative field..
- Getting tokenization of tweet text
- Performing Stemming, Lemmatization, Removal of stop word, Cleaning and removing punctuations, cleaning and removing URL's for better result
- Plot a cloud of words for negative and positive reviews using WordCloud

PERSONAL PROJECT

Human Activity Recognition *Sep 2021 - Dec 2021*

Objective : To detect day to day activities of humans using smart phone sensor data.
Models Used : Logistic Regression, Linear SVC, Decision Tree, Random Forest, LSTM.
Evaluation Parameter : Confusion Matrix, Accuracy Score
Roles & Responsibilities :
- Prepared and cleaned the data for stop words, empty spaces, alpha numeric, numeric, punctuation, etc.
- Implemented the aforementioned models and tested them for accuracy and time taken to run.
- Used Cosine similarity to gauge the similarity between questions.

EDUCATION

Atria Institute of Technology (VTU) **Bengaluru, India**
B.E. in Computer Science GPA: 72 *Graduated in June 2015*

ADDITIONAL

- Relevant Coursework: Applied AI Course, Python Programming Masterclass
- Experience in Database Migration.
- Excellent client handling, team management and communication skills.
- Programming Languages: Python, Shell Scripting, MS SQL