Sandeep Bomma
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Knowledge in Machine Learning Algorithms to deliver actionable insights & solutions to business problems with 4+ years of Industry experience.

Skills:

- **Technical Skills**: Python, SQL, MongoDB, Unix. Web Scraping, Kafka, AWS Pipelines.
- **Packages**: Scikit-Learn, Keras, Numpy, Pandas, NLTK, Matplotlib, Jupyter Notebook.
- **Machine Learning**: Linear/Regression, Clustering, Regularizations, Dimensionality Reduction, Ensemble Modelling.
- **Deep Learning**: Multi-Layer Perceptron, CNN, LSTM, RNN.

Work Experience:

LTI (Larsen & Toubro) – Sr. Data Engineer (Feb 2021 - Present)
   Waiting for project Allocation.

Tech Mahindra – Software Engineer (March 2017- Feb 2021)

- **Project: Defective Product Classification**
  Client: Cisco Systems
  Description: Process the product images and classify the defective types.
  Responsibilities:
  - Clean the Image dataset and exclude wrongly mapped images.
  - Augment Image Data.
  - Develop Deep Learning Model Using **CNN** to classify defective images using **AWS Sagemaker** and Saved model in **AWS S3 bucket**.

  Tools and Techniques used: Python, CNN, Max-pooling, Data Augmentation.

- **Project: Server crash prediction** (June 2019 – Dec 2019)
  Client: Cisco Systems
  Description: R&D Building a model to predict the server crash using log analysis.
  Responsibilities:
  - Analize insights from Log Data.
  - Tweaking the log files to validate the parameters which affects the server performance.
  - Used exploratory data analysis (EDA) to analyze and visualize the data set to summarize their main characteristics.
  - Dimensionality Reduction Technique (PCA) used to remove collinear parameters.
  - Developed Deep Learning Model using LSTM and linear activation for regression predictions

  Tools and Techniques used - Python, Scikit learn, Matplot-lib, Logistic Regression, LSTM, PCA.

- **Automatic Service Ticket Classification**:
  Problem Statement: Customer agents have to assign tags or categories to each ticket depending on their content, which routes them to the team based on the priority. Cisco Aftemarket services initiated a project to automate the classification of the prioritizing tickets. We have developed a machine learning model that will automatically classify the ticket, helped in routing and prioritizing tickets that are more urgent. This project helped in automating customer support processes to make business even more efficient
  Responsibilities:
  ● Cleaned and transformed the corpus
  ● Pre-processed data on text like removing stop-words, stemming, and lemmatization, vectorization and standardization
  ● Developed multiple machine learning algorithms.
  ● Built Deep learning model using **LSTM**, and used **Softmax** Classifier to classify the data. We observed that Deep Learning model performs better than classical MLmodel
  ● Carrying out classification of tickets as per given data.
  ● Deployed Machine Learning model using **AWS EC2** instance

  Tools and Techniques used: Python, Scikit Learn ,Keras , LSTM ,Softmax Classifier.

- **Project: Item Hub** (March 2017 − April2018)
  Client: Cisco Systems
  Description: EGenie is currently used at Cisco Systems for the purpose of providing a single view for third party vendors to buy Cisco products.
  Responsibilities:
  1. Provided immediate remedial actions for the bugs identified.
  2. Performed root cause analysis on cisco product transactions.
  3. Developed and tested new product offerings prior to release to assist development team in bug Identification and provided solutions for operation issues to users of Cisco vendors.

Personal Projects (Git-Hub: https://github.com/Bomma-Hub/)

1. **Amazon Food Reviews Data Corpus**:
   Description**:**
   ● Performing sentimental analysis on Amazon Food Review Data corpus using various Machine Learning(K-NN, Naïve Bayes, Logistic etc.) and Deep Learning Techniques (performed various MLP architectures) and achieved an **accuracy of 85%.**

2. **Personalized Medicine: Redefining Cancer Treatment:**
   Description**:**
   ● Distinguishing the mutations that contribute to tumor growth.
   ● Performed EDA and implemented various classification Algorithms like Naïve-Bayes, Logistic, Max-voting and stacked layer and achieved a **Log-Loss < 1.0%.**

Academic Details:

● **2016:** B. Tech. in Electronics and Communication Engineering from Bharat Institute of engineering & Technology.

Personal Details:

Date of Birth: 25th December 1994
Languages Known: English, Hindi and Telugu
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