**LALIT SANDEEP BHAVINENI**

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GitHub: <https://github.com/LalitSandeep>

Kaggle: <https://www.kaggle.com/blsandeep93>

**EDUCATION**

**Master of Science in Computer Science *Jan 2017 – May 2018***

*University of North Carolina at Charlotte CGPA: 3.8/4.0*

**Bachelor of Technology, Computer Science *July 2011 – May 2015***

*Amrita School of Engineering, India(Bangalore) CGPA: 7.31/10.0*

**SKILLS**

**Languages*:*** Python, Java, R, SAS

**Machine Learning frameworks:** TensorFlow, Keras, scikit-learn, MLlib, H2O, Caffe2

**Web Development toolkit:** Flask, Docker, RESTful API, HTML

**Big Data frameworks:** Spark, Hive, Pig

**Database tools:** MySQL, PostgreSQL, MongoDB

**NLP tools:** NLTK, Gensim, Stanford NLP, SpaCy

**Data Visualization:** Tableau, R, D3.js, Power BI **Cloud Computing:**  AWS: Lambda, SageMaker, S3, EC2; Google Cloud

**Data Warehousing Tools:** Informatica PowerCenter

**Statistics:** Statistical Modeling and Experimentation design (A/B testing, t-tests)

**KAGGLE COMPETITIONS** (<https://www.kaggle.com/blsandeep93>) . **Avito Diamond-** Predict demand of an ad. ***Private Leaderboard Rank: 474/1917 (top 25%)***

**Santander Value-** Predict value of transaction. ***Private******Leaderboard Rank: 755/4591 (top 17%)***

**PROJECTS**

***Sentiment Analysis using Deep Learning (Python)***

Classified sentiments of reviews using two deep learning techniques- **CNN** and **LSTM**. Cleaned the data by removing stop words and special characters. Converted text into sequences of word embedding using **Word2Vec**. Built Neural Networks using **Keras** and **TensorFlow**.

***Document Classifying Web Application (AWS Lambda, Flask, Python)***

Designed a web application which classifies documents based on the text content. Deployed the classifier model as a web service on AWS **Lambda** using **RESTful API, Flask and S3**.

***Convolutional Neural Network (Python)*** Developed CNN model to classify images of furniture equipment. Deployed **VGG 16 model** to make use of transfer learning. Achieved an accuracy of 92% by further fine tuning the model. Utilized CUDA enabled **GPU**s to enhance computations.

**Machine learning projects *(Python, R, SAS)***

Applied various machine learning techniques like Regression, SVM, Decision Trees, Naïve Bayes, Random Forests, Clustering, etc. on many small and also Bigdata sets in R, python and SAS.

***Time Series Analysis******(R)*** Analysed trends using time series data in R. Identified seasonality in the data using graphs. Predicted sales of a company using **ARIMA** model. Forecast time series using other techniques like Exponential Smoothing, Holt Winters method.

***Twitter Streams using Apache Kafka (Apache Spark)*** Built an application that performs Sentiment analysis of certain hash tags in twitter data in real-time using Apache Spark Streaming, **Kafka**, **Elasticsearch**.

**Natural language Processing Projects *(Python)***

Implemented various projects related to NLP concepts like Vector Semantics, Machine Translation, N-gram language Modeling, Sentiment Analysis, Speech Processing.

**EXPERIENCE**

**Software Development Engineer  *July 2015 – August 2016***

*Tata Consultancy Services Ltd, (Chennai) India*

Design and execute automation scripts using Java and Selenium to automate an application. Handled business needs, determining new requirements, or revising existing requirements as necessary in an Agile based development environment*.* Developed SQL stored procedures, triggers, views for business needs. Generated reports with visualizations to analyze the system requirements.