

# LAVISH BANSAL

R&D Engineer

## Contact

### Address

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## Skills

Strong fundamentals in data  
Science field

Hands-on working  
experience on ML models  
such as Linear regression,  
Logistic regression, Decision  
Tree

Experience in Exploratory  
data analysis using  
matplotlib, scikit learn,  
pandas, etc. in Jupyter  
notebook

Hands-on working  
experience on Text Mining  
and Natural Language  
processing (NLP). – BOW  
TFIDF, Word2Vec

Working experience on Scikit  
learn, Pandas, Numpy, Scipy,  
Matplotlib, seaborn, NLTK

Working Experience in  
Python, Java

A Passionate Software Engineer with 2+ years of experience in Data Science, who seeks for a challenging role in IT Sector, where the competent technical skills, verbal skills and talent can be used to bring the organization, a sharper edge within the industry besides ensuring personal growth. Skilled in machine learning, statistics, automation, problem solving and programming

## Work History

2021-03 -  
Current

### BridgeTree – R&D Engineer

- Project: **Product Placement (Proof of Concept)**

**Overview:** This involves detection products in a supermarket using YOLO model and then finding out the placement of each product.

**Role:** Developer

**Model:** YOLOv4

**Data Source:** Google Images

**Technologies & Tools:** Python, Google Colab

2018-05 -  
2021-03

### MetricStream - MTS (Member Technical Staff)

- Project: **Text Summarization System**

**Overview:** Extraction-based summarization:

This model creates a summary of the long document by considering top-n phrases and sentences that relay the most useful information from the original text

**Business Use Case:** PDMS app provide customers a space to efficiently keep policies/procedures and customers create their policies and have to write summary for the created policy as well which was a very tedious job for them to do.

**Role:** Developer

**Libraries:** NLTK, Scikit Learn, Gensim

**Model:** Word2Vec, Text Rank Algorithm

**Data Source:** API

- Project: **Answering System of similar question**

**Overview:** This system identifies the similar question asked by different client in shared location like confluence page and refer the already available solution in the page.

**Business Use Case:** PM has to address number of queries and questions asked by either customer or by GS team. Most of the time questions were repetitive and to address their queries more effectively and in lesser time, we have implemented this solution

**Role:** Developer

**Libraries:** Pandas, NumPy, NLTK, Scikit Learn

**Model:** Logistic regression

Knowledge on SVM, KNN Models

Knowledge on Ensembles model like Random Forest, GBDT, XGBoost

Knowledge on Principle component analysis (PCA) and t-SNE

Software



Languages



Data Source: Confluence page

- Project: **Automated MLS Testing Tool**

**Overview:** R&D tests its releases to ensure that the apps are MLS enabled. The tests are manual and consume, based on size of the app, anywhere from 2-15 days of effort and additional 1-2 days to setup MLS for any of the app. This tool generates a report which points out the potential bugs in application and this reduces the testing effort to less than 2 hours

**Role:** Developer

**Technologies & Tools:** Java

Other Projects

House Price prediction Model

**Overview:** Predicting house prices dataset for analysis of Boston house dataset and finally running Linear Regression Model and Predicting the house prices.

**Libraries:** Pandas, NumPy, Matplotlib, SciPy, Seaborn

**Model:** Random Forest Regressor model

**Data Source:** Kaggle

Education

2013-2017	<b>Bachelor of Technology: Computer Science and Engineering</b> <i>Shaheed Bhagat Singh State Technical Campus, Ferozepur (Punjab Technical University) – Punjab</i> <i>Graduated with 78.4% marks</i>
2012-2013	<b>Intermediate: Science</b> <i>D.N Model Sr. Sec - Moga, Punjab</i> <i>Graduated with 83.2% marks</i>
2010-2011	<b>Secondary: Science</b> <i>Geeta Bhawan Public School – Moga, Punjab</i> <i>Graduated with 90% marks</i>