

## GANESH DHUMAL

Machine Learning Engineer with 3.5 years of Experience

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### SYNOPSIS

A dynamic professional with over 3.5 years of functional experience in Machine learning, Deep learning, Natural language processing. Passionate about building models that fix problems. Have expertise in preparing data, developing and deploying highly scalable machine learning models.

### CAREER CONTOUR

#### Nexus Software System, Pune.

Working as a Machine Learning Engineer from August, 2018 to till date.

### PROJECTS

#### A. Project Name: Financial Document Classification using Machine Learning and NLP

Domain: Document Classification

##### Description:

Mortgage industry is performing mortgage loan audits of thousands of people using documents and the amount of paperwork involved. Our task to develop machine learning model to classify different classes of documents using OCR, Text preprocessing, text vectorizer and classification algorithm. This model helped to reduce the manual effort and automated the task of Document Classification.

##### Contribution:

- Involved in requirement gathering.
- Building data cleansing by Text preprocessing.
- Applying suitable algorithms for achieving better accuracy
- Preparing daily status report, weekly status report

#### B. Project Name: Medical Report Generation Using Encoders and Decoders

Domain: Healthcare

##### Description:

To build a deep learning model that automatically write the impression part of medical report of chest X-rays and alleviate some of the burden of the medical professional. Our task is to create an Image captioning deep learning model which can write automatic medical reports using Encoders and Decoders.

##### Contribution:

- Involved in feature extraction from the images.
- Pre-processing the text data from reports
- Involved in parameter tuning process for optimal model hyper parameters
- Involved in development of model architecture

#### C. Project Name: Digital transformation in Baking sector

Domain: Finance

##### Description:

Bank has a growing customer base where the majority of them are liability customers vs. borrowers. The bank is interested in expanding the borrowers base rapidly to bring in more business via loan interests. Our task to develop a machine learning model to perform focused digital marketing by predicting the potential customers who will convert from liability customers to asset customers.

### **Contribution:**

- Evaluating and pre-processing bank customer's data
- Analysing records and using the data
- Involved in model building and evaluation of model
- Involved in parameter tuning process for optimal model hyper parameters

### **PROFESSIONAL SYNOPSIS**

- Knowledge of industry best practices and a deep understanding on how data is extracted, transformed, scrubbed and loaded in Data storage environments.
- Thorough understanding of Data Science tools, techniques and technologies in Machine Learning, NLP and Deep Learning algorithms using Python, SciPy, NumPy, Matplotlib, NLTK, Tensor flow and Keras.
- Source code management and Version Control system using Git and GitHub.
- Ability to achieve in-depth understanding of the problem domain and available data assets.
- Able to investigate Data Visualization and summarization techniques conveying key findings.
- Ability to write a clean and production code with Object Oriented Programming in Python.
- Possess excellent communication skills with strong organizational & team building abilities.

### **KEY SKILLS**

- **Python/ML Packages:** NumPy, Pandas, Tensor Flow - Keras, NLTK, Genisim, CV2, Scikit-learn, Seaborn, Matplotlib, Flask, Pymongo
- **Machine learning:** Linear Regression, Logistic Regression, Naïve Bayes Classifier, KNN Classifier, Support Vector Machine, Decision Tree, Random Forest, Ada-Boost, K-means Clustering
- **Deep learning:** ANN, CNN, RNN
- **Natural language Processing:** Text pre-processing, Word2Vec, LSTM, Encoder-Decoder
- **Cloud:** Heroku, AWS, Azure, GCP
- **Database:** MySQL, MongoDB
- **Web Framework:** Flask, Django
- **IDE:** Jupyter Notebook, Visual Studio

### **ACADEMIA**

Master of Engineering with First Class from Pune University with 7.65 CGPA Pune Maharashtra.

Bachelor of Engineering with Distinction from Solapur University with 69.93 % Solapur Maharashtra.

### **PERSONAL INFORMATION**

**Candidate Name** : Ganesh Sambhaji Dhumal  
**Date of Birth** : 5<sup>th</sup> March'1991.  
**Nationality** : Indian  
**Marital Status** : Married  
**Address** : 904, B14, Mangal Bhairav, Nanded city, Pune - 41.  
**Languages Known** : English, Hindi, Marathi