# Machine Learning Engineer

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D.O.B: 09-07-1997

**EXPERIENCE SUMMARY**:

Machine learning engineer with **2+ years of** Broad-based experience in building data-intensive applications. Proficient in data modeling, data processing, and applying machine learning algorithms, and having knowledge of Deep Learning. Capable of creating, and developing ML models to translate business and functional qualifications into substantial deliverables. I am passionate to learn new technologies. If there is a chance to work on NLP and AI projects also, I am interested.

**EDUCATION:**

| GRADE | SPECIALIZATION | CGPA/% Marks | UNIVERSITY |
|-------|----------------|--------------|------------|
| **10TH** | **Mathematics Science** | **9.3** | **RMC high school** |
| **12TH** | **MPC** | **95 %** | **Krishnaveni junior college** |
| **BTECH** | **Computer Science and Engineering** | **69 %** | **DRK Engineering college** |

**Technical skills:**

- Programming Languages: **Python, Java, .Net C#.**
- Scripting Languages: **HTML, CSS.**

- Web Framework using python: **Flask, Django.**
- Data Analysing, Data Pre-processing, Data Visualization.
- Statistical analytics.
- Machine Learning.
- Deep Learning.
- TensorFlow, Kera's.
- Computer vision
- Natural Language Processing
- OpenCV Framework

## Professional Experience at Vajra.AI    [May 2020 to July 2021]

- Developed Action plans to Migrate risks in decision making while increasing Profitability by leveraging machine learning.
- Drive the Interaction between the Manager to ensure active cooperation in identifying as well as defining analytical needs.
- Built predictive models with improved performance using the various machine learning tool
- Experience in working on health care projects and developing ml models for finding the stages of patients
- Experience with ML Algorithms such as decision tree, Random Forest, K-means, KNN, Linear Regression, Logistics Regression, PCA, SVM

## Professional Experience at Bluetick consultants   [July 2021 to Present]

- Building fine-tuning models using deep learning RNN and hugging face for finding entities in news articles
- Using yolo v4 to detect the objects in live videos. developed 10 labels detected weights file using Yolo v4. Checking the validation reports and performance of the model using statistical analysis.
- Experience in writing blogs for the company website on deep learning and machine learning models.

## Some blogs are written for my current organization:

**Blog_1**: https://www.bluetickconsultants.com/summary-extraction-of-an-article-using-experimental-NLP-techniques.html

**Blog_2:** https://www.bluetickconsultants.com/computer-vision-using-yolo-v4-and-data-augmentation-techniques.html

**Blog_3:** https://www.bluetickconsultants.com/multi-label-classification-using-transfer-learning-techniques.html

**Project Name:**

**Detecting the stages in healthcare using Ml and DL models**

- Responsible for analysing large data sets to develop custom models and algorithms to drive business solutions.
- Responsible for training the algorithms so they can be applied to future data sets and provide the appropriate recommendations in real time.
- Built learning systems to analyse and filter continuous data flows and combine data features to determine models.
- We tried different models like Logistic regression, Random Forest trees, KNN and K means. Finally, we finalize the logistic regression which it gave the best accuracy score.
- We tried validation techniques to improve the performance of the model.
- Support the entire application lifecycle (concept, design, test, release, and support). Gather specific requirements and suggest solutions for continuous improvement

**Project Name:**

**Finding the proteins content in images related to food for attracting customer**

- Using the TensorFlow framework we develop our models using different CNN networks and max-pooling layers.
- Responsible for developing models in a resource environment and making the entire team understand the performance of the model.
- We developed the models using transfer learning techniques also like vgg16 vgg19 and Resnet.
- For checking purposes, we worked on the HOG model also for collecting gradients and HOG features which can be used to train SVM.
- We worked on multiple activation functions for selecting the best one that gives makes our model get better predictions.

**DECLARATION:**

I hereby declare that all the information furnished above is correct to the best of my belief. I am responsible for the authenticity of all the information.

**Signature**

K Sai Kamal