Dhiraj Kumar

Mumbai

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**Summary**

**Content Writer and Video content creator for Data Science** and **Machine Learning** with Total 15+ years of experience in Software Industry.

I am a technology leader with 15+ years of total experience, and 7+ years in Machine learning. I have worked across many different industries such as fin-tech, energy, real-estate, healthcare, and education.

I specialize in Data analytics and Machine learning using python. My Primary Expertise includes Python, Flask, Machine Learning, Deep Learning, Chat Bot, NLP, Spark, AWS, Docker, C#, Microsoft Bot Framework and Azure.

I have good experience in designing, building and deploying enterprise machine learning solutions using tools like Jupyter Notebook, Tensor Flow, Keras, PyTorch, numpy, pandas, scipy, scikit-learn using python.

**My Blog**

<https://medium.com/@dhiraj8899>

<https://blog.paperspace.com/author/dhiraj/>

<https://github.com/dhirajk100>

**Education**

**Post Graduate Diploma in Machine Learning and Artificial Intelligence-**

**Amity University – India – 2019**

**Bachelor of Engineering –**

**Jadavpur University- Kolkata, India -2001**

**Certification**

**Certificate in Machine Learning – Stanford University- Online - 2018**

**Employment History**

**Riseness Software, Mumbai**

**Content Creator and Machine Learning Engineer**

**November 2015 – Present**

**Projects:**

1. **Credit Risk Modeling ( Machine Learning)**

Credit Risk Modeling using Machine Learning Ensembles, Big Data and REST API.  
We used Genetic algorithms, neural networks, random forests, support vector machines to create a set of statistical models that can be integrated to other applications for predictions.

Technology used: Python, Machine Learning, Apache Spark, Jupyter Notebook, numpy, pandas, C#, ASP.NET

1. **Conversational Agent (Chat Bot, NLP)**:  
   Developing, evaluating and deploying merchant facing conversational agent. Natural Language Processing using Naïve Bayes Classifier. Development of LSTM model using Python and Keras.  
   Natural Language Processing , Tokenization , Stemming , Lemmatization , Stop Words , N-grams , TF-IDF, Data Reprocessing , Feature Engineering , Model development , Model evaluation , Model Deployment , Model Monitoring and Model Improvements. Model development using Apache Spark.

Technology Used: Python 3.6, Jupyter Notebook, Pandas, Numpy, NLP, LSTM

1. **SmartATM (Computer Vision):**   
   ATM app to check for disguised faces using Computer Vision. Utilization of this face detection system at ATMs will help in higher security by preventing fraud. These results from the fact that services will be given to the user on condition that a clear image of his face has already been captured which would exclude the inappropriate person with disguised faces with helmet or cap.

Real times face detection system in ATMs. Computer Vision using Convolutional Neural Network, OpenCV. Object detection algorithm, in which, OpenCV features are used for detection of face and eyes was implemented.

**Technology Used**: Python 3.6, Flask, Jupyter Notebook, Pandas, Numpy, CNN, OpenCV

**Capgemini, Mumbai**

**Data Scientist**

June 2013 – November 2015

**Project:**

**Customer Segmentation Project**

Using clustering techniques, to identify the several segments of customers allowing us to target the potential user base. In this machine learning project, we used K-means clustering which is the essential algorithm for clustering unlabeled dataset.

Development of micro services using Python and Flask.

Deployment of Services on AWS and Azure.

Building and productionizing predictive models on large data sets.

**Syntel, Mumbai**

**June 2011 – June 2013**

Software Engineer

Building and productionizing predictive models on large  
datasets by utilizing advanced statistical modeling and other.

Development of micro services using Python.  
REST API development using python and Flask.

**Whats on India media Pvt Ltd, Mumbai**

**March 2009 – June 2011**

Software Engineer

Development, documentation and maintenance of  
architectures, requirements, algorithms, interfaces and  
designs for software systems.

**C3IT software Solutions, Pune**

**December 2007 – March 2008**

Associate Consultant

Development, unit testing, test support and post production  
warranty support for all functionalities developed.

**Seaarland marine services pvt ltd, Mumbai**

**Sep 2006 – Mar 2007**

Assistant Engineer

Involved in building and testing application used by on board ship and its supporting machinery. Technology used C# and Visual Studio and office add-in.

**Orinoco marine consultancy pvt ltd, Mumbai**

**April 2002 – March 2006**

Involved in building and testing application used by on board ship and its supporting machinery. Technology used C# and Visual Studio.

**Technical Skills**

Python, Machine Learning, Deep Learning

Sklearn, Tensor Flow, PyTorch, Keras

Pandas, Numpy, Matplotlib, seaborn, Scikit-Learn

C#, Microsoft Bot Framework

AWS, AZURE, GCP, Docker, Flask

Continuous Integration and Deployment

Test Driven Development

**Domain Knowledge**

Banking and Payments

Insurance

Energy

Education

Real Estate