# Kartik Mohan

Problem Solver. Mentor. Firefighter

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## EXPERIENCE

### 5+ years of Experience in Data Science

### TechSpiritz, Mangalore

**2015 - 2020**

**Role: Data Scientist**

➔ Good in developing robust Machine Learning models, Convolution Neural Network (CNN), Recurrent Neural Network (RNN), LSTM using Keras and Tensor Flow.

➔Experience in performing Feature Selection Linear Regression, Logistic Regression, SVM, KNN, Random Forest, Decision Tree, ELM, Neural Network algorithms to train, test and validate large data sets.

➔Hands on Experience in NLP, Text Analytics, developing different statistical Machine Models. Solutions to business problems and generating data visualization.

### Role: Data Scientist Lead /NLP Engineer

➔ **Fulfilled all data science and computer vision duties for a high-end hospital in analyzing a particular disease, helping doctors to take second opinion from our model.**

➔ Performed parameter selection and calibration of the inputs to the Building Model using **Markov Chain Monte Carlo (MCMC)–MH**.

➔ Improved the model's **prediction accuracy** to 93%.

➔ Implemented the **Random Forest Machine Learning algorithm** to predict disease rate in medical data for a hospital client.

➔ Assisted the HR director in talent assessment of new Data Scientists and **employee engagement programs,** building a tool using NLP and NLTK TensorFlow which reduced the **attrition rate from 25% to 7 %.**

### Innominds Software – September 2020- November 2020

EDUCATION

School of Information Science, Manipal University 2012-14

M.Tech (Master of Technology)

CGPA –8.53/10

## SKILLS

| | |
|---|---|
| Python | ★★★★☆ |
| Algorithms | ★★★☆☆ |
| MATLAB | ★★★★☆ |
| DNN | ★★★★☆ |
| NLP | ★★★★☆ |
| SQL | ★★★☆☆ |
| API | ★★★★☆ |
| Data Modelling | ★★★☆☆ |
| Azure | ★★★★☆ |
| Hadoop | ★★★★☆ |
| Django/Flask | ★★★★☆ |
| PHP | ★★★★☆ |
| JSON | ★★★★☆ |
| React | ★★★☆☆ |

## ACHIEVEMENTS / CERTIFICATIONS

Conducted workshops on Python, Machine Learning, IoT and AI for engineering students.

Worked as a freelancer to various Machine Learning Problems.

**BEST EMPLOYEE AWARD**

**TechSpiritz**

**Projects:**

**Innominds Software:**                                           **Sept 2020- Nov 2020**
Client: Vector flow, USA
Project: False alarm Elimination
Role:
- SOC Dashboard Development, KPI Dashboard Design.
- Worked with database engineers to implement ETL process for data extraction and merging from SQL server database.

**Secondary Opinion Prediction Model:**                          Jan 2015 - 2017
Completed and working live.
Libraries: Tensorflow, Keras , pyTorch, scikit ,DNN, OpenCV
- Created and presented models for patient monitoring and disease detection, achieving detection rate of 75-80% from 60-70% earlier.
- Developing and implementing predictive models (e.g., support vector machines, bagged trees, cluster analysis), including supervised and unsupervised learning techniques with large and complex data sets.
- Built Machine Learning algorithms to Predict failure patterns of various diseases in order to optimally plan the decision taking ability of the model.
- Using Tensorflow to design custom deep learning system

**Classify Human and Objects:**                                 May 2016 – 2018
Completed and working live.
- Object detection and tracking system using R-CNN Model to categorize human and other objects.
- ResNet-based model was used for face detection, over 5000 annotated images of human heads, shoulders and complete bodies which improved accuracy efficiently.
- Linear/logistic regression models, SVM, decision trees, random forest, ELM (Extreme learning Machine) were also implemented.

**Intelligent Resume Sorting:**                                 Feb 2017 - 2019
Completed and working live.
- Understanding the trade-offs between different solutions Candidate should be a competent software engineer capable of contributing to our software repository and owning/leading complex ML software projects.
- Developed using Natural Language Processing (Spacy) with representation model BERT and DOM.
- Accuracy was improved using elastic search with NLP.

**Summarizing the Doctor's reports:**                           Aug 2019 – 2020
- Constructed a language model to accomplish the Named Entity Recognition.
- RNN with LSTM neural network architectures were implemented for NLP implementation.
- Unstructured data mining with UMLS and IBM Watson NLU were used for testing model.