## PRABAKAR S

Mumbai

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#### **WORK EXPERIENCE**

#### Data Scientist - eClerx Services Ltd

[July'17-Present]

- Part of AI/ML Team in eClerx Services Ltd.
- Responsible for designing, developing and implementing models according to the business requirements and client expectations.
- Worked on the following projects:

## 1. Similar Image Recommendation System

- > Developed an image recommendation system using metadata from Google Vision API.
- > This system was developed using classical machine learning algorithms and Natural Language Processing (NLP) techniques.

## 2. Information Extractor

- > At present, working on a python engine to extract information from document based on the client requirements and business rules.
- > It involves parsing the document to convert unstructured data into structured data and information extraction using NLP techniques.
- Received **SPOT** award for dedication and commitment in the delivery of the project.

## **TECHNICAL SKILLS:**

**Programming:** Python, R and Matlab.

Extensively worked in Python and have good command over python packages for data science/ machine learning such as Numpy, Pandas, Scikit-Lean, Keras, Tensor-flow, NLTK, etc.

## **AREA OF INTEREST:**

- Deep Learning
- Natural Language Processing

#### **PROJECTS**

Master's Thesis: Water Quality Monitoring and Modelling for semi-urban systems (Part of Obama-Singh Initiative with UC Berkeley), Guided by Prof. Bakul Rao, IIT Bombay [July '15-June '16]

- To understand the water quality issues in the drinking water cycle as well as the sanitary cycle in semiurban systems.
- Water distribution and sanitary cycles was analyzed and a model was created using SWAT model and a monitoring program was designed.
- Both the water quality model and the monitoring program requires modifications based on the further studies.

**Field Stay Project:** Design of Environmental Services for Rural Areas, Guided by Prof. Bakul Rao, IIT Bombay [May'15-July'15]

- To design environmental services such as water supply scheme, sanitation, roads and solid waste management for Junoni village in Osmanabad, Maharashtra.
- Designed a water supply scheme and a drainage network along with understanding the village by analysing various sectors such as water, sanitation, energy, agriculture, etc.
- Design of roads and solid waste management need to be done and the integrity of designing the above systems and their relation with the public health can be studied.

## **Course Projects:**

- Attended Winter School under Prof. NC Narayanan, CTARA, IIT-Bombay on the study of Athirapally Hydro Electric Project in Kerala.
  - To study and understand the necessity of the additional dam in Chalakudy River when already five dams exists in the same river by conducting survey and interacting with the stakeholders.
  - It was found that dependency of farmers on dam water had been reduced, but environmental consequences would be there if that get constructed.

## **EDUCATION**

Examination	University	Institute	Year   CPI / %
Postgraduate Specialization: M.Tech-Technology & Development, CTARA			
	IIT Bombay	IIT Bombay	2016 8.36
Undergraduate Specialization: B.EMechanical Engineering			
	Anna University, Chennai	EBET Group of Institutions	2014 8.67

### POSITION OF RESPONSIBILITY

- Hostel Alumni Secretary for H12, 2014-15 and part of HDA team in SARC, IIT-B in 2014-2015
- **Vice-Secretory** for the Mechanical Engineering Association and Society of Automotive Engineers, EBET-i Collegiate Club during the academic years 2011-12 & 2012-13 respectively.

# **ACHIEVEMENTS**

Secured 1<sup>st</sup> place in Paper Presentation in Kongu Engineering College on the title "Solar Powered Stirling Engine"

# **EXTRA-CURRICULAR ACTIVITIES**

- First position- Group dance event, PG Cult 2015.
- Paper presented on the topic "Solar Powered Stirling Engine" in IIT Madras.