

# PRABAKAR S

Mumbai | [prabakar\\_s@live.com](mailto:prabakar_s@live.com) | <https://in.linkedin.com/in/prabakar-s-84827279> | +91 89735 88891

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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-Learn, 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 semi-urban 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:

1. 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 / % |
|---|-----------------------------|-------------------------------|------|---------|
| M.Tech-Technology & Development,<br>CTARA | IIT Bombay                  | IIT Bombay                    | 2016 | 8.36    |
| B.E.-Mechanical Engineering               | Anna University,<br>Chennai | EBET Group of<br>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.