

# PRABAKAR S

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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.

## PROJECTS

### *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.

### *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.

**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 the farmers on dam water had been reduced, but environmental consequences would be there if that get constructed.

**B.E. Project:** *Flow Analysis on Diesel Particulate Filter*, guided by Asst. Prof. Sivaraj C. [July'13-Mar'14]

- To analyze the movement of Particulate Matters (PM) in the exhaust gas of a diesel engine in the Diesel Particulate Filter (DPF).
- The pressure drop, deposition of soot fraction, flow field trajectories, velocity field along the length of DPF were successfully predicted inside the DPF.

## EDUCATION

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

## AREA OF INTEREST:

- Deep Learning
- Natural Language Processing

## TECHNICAL SKILLS:

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

## 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

- Received **SPOT award** for dedication and commitment in the delivery of the project.
- 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.