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.

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

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 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 / %
M.Tech-Technology & Development, CTARA	IIT Bombay	IIT Bombay	2016	8.36
B.E.-Mechanical 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

- Received **SPOT award** for dedication and commitment in the delivery of the project.
- Secured **1st 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.