

## **Job Description:**

Designation - Lead Research Engineer - REDX WeSchool

Qualification - Engineer + Masters degree in IT or AI / PhD

Experience - 4-7 years of experience.

## **Skills:**

- Managing relationships and growth with our 3 main areas: doctors/hospitals, meetups/events, and data management.
- Execute on operational requirements for the broader REDX Innovation staff including, but not limited to, HR, accounting, inventory management, hosting guests, social media/outreach, staff management (growth, all-hands, 1-on-1 feedback, etc.) and event management.
- Knowledge of deep learning algorithms such as Convolutional neural networks (CNN), Recurrent neural networks (RNN - LSTM- GRU), Deep Q network.
- Good at Coding languages: Python/JavaScript/R/C++/ Lua/MATLAB.
- Functional Knowledge and usage of Frameworks: Git, Tensorflow, PyTorch, CNTK, MXNET, Caffe, Keras, Fastai, OpenAI Gym
- Know-how of Big Data Platforms: Hadoop/ Spark.
- Proficiency in deployment of Cloud computing platforms: AWS/ Google Cloud/ Azure/ IBM Bluemix/ Google Colab,
- Good grasp of Package managers: Docker/ Anaconda.
- Acquainted with Packages/ Library used by Data Scientists: Scikit-learn, NLTK, Gensim, request, BeautifulSoup, Scrapy, Spacy, Matplotlib, OpenCV, Pandas, NumPy, IPython, Jupyter, etc.
- Good Coding skills: Dynamic programming, Mathematical modelling, Web Scraping, Data pre-processing and cleaning, building GUI, Exception handling, Code version control
- Ability to Test and evaluate theoretical models and algorithms.
- Familiarity with the Design Thinking methodology
- Is acquainted with techniques Physical Prototyping
- Possesses an innate curiosity for strongly understanding people, culture, and behavior.
- Ability to work together with an interdisciplinary team in a synergistic manner.
- Partner well with others from different disciplines to integrate input from various sources and solve problems
- Experience facilitating stakeholder relationships through workshops and collaborative work sessions.
- Liaison between REDX and the WeSchool to become more fully integrated with their program and operations.
- Apart from the above task, Institute expects your involvement and support for the various promotional activities undertaken by the institute.
- You are expected to offer your services if required on Sundays/holidays, for which compensatory off would be considered.
- Other responsibilities may be added as and when required during the course of the year.

### **Teaching responsibility**

- Ability to communicate the subject matter
- *As per the standard requirements to be added*

### **Extras – GOOD TO HAVE**

- Be aware of various government schemes for promoting entrepreneurship in a Higher Education Institute (HEI).
- Apply for such schemes (monetary grants under various categories related to innovation and entrepreneurship/fellowships/programs etc.
- Liase with the concerned government departments, agencies and authorities
- Help update and implement the institute's Startup Policy with pro-active measures to enhance engagement of students, faculty and entrepreneurs from the ecosystem
- 

### **REDX WeSchool Lab, Mumbai**

REDX WeSchool is a vibrant ecosystem based on rolling out new and innovative commercial and citizen-based technologies to create a framework to support wide-ranging needs of urban populations and corporations. As a REDX innovator/fellow you will be responsible for research, design, development and test of ideas that will impact billions. At REDX you will have access to great mentorship, latest design tools and a supportive environment of like-minded people with diverse skill sets. You will receive active mentorship from world-class experts and support with state-of-the-art infrastructure (hardware, software and design) like Computing machines, GPU clusters, 3D printers, Laser Cutters and several rapid prototyping tools. Bring passion and dedication to your job and there's no telling what you could accomplish. Imagine what you could do at REDX!