

## JOB DESCRIPTION

<b>Position Title</b>	<b>Research Officer (Advanced Intelligence Lab)</b>
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### A. Position Purpose & Summary:

The research officer will be responsible to conduct a range of research which supports data analytics in its mission. In particular, this role may involve working across a variety of research activities in statistics/mathematics or business analytics with experience, courses, or project work in analytic methods such as regression, classification, deep learning, modelling, time series analysis, pattern recognition, queuing theory, multivariate analysis, and other various predictive analytics techniques. He/she is involved in all areas of R&D from design, implementation, and optimization. This leads to create insight and innovations which unlocking the power of data science.

### B. Primary Duties & Responsibilities:

To perform data pre-processing in extract, transform and load (ETL) with various data sources

To select features, building and optimizing classifiers using machine learning techniques

To execute data mining, machine learning and deep learning by using state-of-the-art methods

To evaluate and fine-tuning hyperparameters and its predictive models

To enhance data collection procedures to include information that is relevant for building analytic systems

To draw conclusions from data and prescribe actionable, measurable activities and data visualization

To work of research publication and applications for patents

### C. Accountability:

- Completing any tasks that have been designated to he/she
- Being responsible for assigned duties that go along with his/her tasks
- Being consistent in doing the right thing in all aspects pertaining to his/her tasks
- Working together towards a common goal for the organization

## POSITION REQUIREMENTS

### D. Academic Qualification:

- Phd    Master's    Degree   Others (Please specify)
- Engineering    Information Technology    Science    Marketing / Business
- Finance / Management    Others (Please specify) Human Resource

### E. Experiences:

- Fresh    1- 3 years    5-10 years    More than 10 years
- R&D    Information Technology    Manufacturing    Oil & Gas
- Finance / Admin    Sales / Marketing    Others (Pls specify)

F. Technical Skills	G. Soft Skills
Good understanding of machine learning techniques and algorithms, such as k-NN, Naive Bayes, SVM, Decision Forests, etc.	Positive working attitude, energetic, proactive, good interpersonal skills
Experience in extracting and processing various data source format such as CSV, JSON, HDF and database	
Experience in data science toolkits, such as Jupyter Notebook, Pandas, NumPy, TensorFlow, PyTorch, H2O.ai, rapids.ai or etc. Strong in at least two of these is highly desirable	Good technical written skills and high quality documentation paying attention to detail
Innate ability in applied statistics skill, such as distributions, statistical testing, regression and others.	Highly motivated and good in time management
Good in using Python, SQL, C/C++, Bash, JavaScript, HTML 5 and CSS	Data-oriented personality

### Additional Preferences

- Able to demonstrate final year project that relevant to data analytics
- Experience in deep learning such as CNN, RNN, LSTM or others
- Familiarize Linux R&D environment with Flask Framework