Job Description

Doc. No.	DS-2	Revision	1
Position Title	Researcher	Category	Technical
Department	ICT	Reports to	Chief Technology Officer
Supervises	A group of researchers/engineers		

A. Position Purpose & Summary:

The incumbent will be responsible for developing predictive systems, creating efficient algorithms and improving data quality. He/She will work closely with the Research team and Development team to identify, evaluate, design and implement statistical analyses of gathered data such as open data, proprietary, and customer data to create analytic metrics and discovery of solutions to business problems that can be solved through the use of machine learning/predictive modeling.

B. Primary Duties & Responsibilities:

1. Analyse large datasets to glean actionable insights and predict outcomes based on historical patterns.
2. Discover new insights and understanding of business performance based on data.
3. Explore and analyses business problems and to create customer scorecards.
4. Identify, monitor and measure quality processes over time.
5. Use statistical data analysis and leading technologies to drive fact based decisions.
6. Explore the availability of new data source.
7. Explore the data to find new patterns and relationship.
8. Able to use Big Data technologies in the analytical process.
9. Able to develop dashboards to visualise findings in precise and meaningful ways.
10. Be a thought leader in the industry by constantly exploring innovative analytical techniques, processes and tools.
11. Collaborate and work with strategic partners (companies / associations) as well as senior officials of relevant ministries, agencies and state representatives.

C. Accountability:

1. The incumbent is accountable for using data to make decisions, which includes building descriptive, diagnostic, prescriptive and predictive models as well as developing new machine learning techniques.

2. The incumbent requires Analytic Agility; the ability to quickly learn new modeling/machine learning techniques, programming languages, and see how these ideas can integrate to optimise the business.

3. The incumbent must lead a team and execute projects using an agile approach in a multi-disciplinary, matrices environment.

4. The incumbent should be able to drive research ideas and projects into new products and services.

5. The incumbent should be able to derive business insights and solve complex business problems by applying advanced analytic and quantitative tools, modeling and data mining techniques.

6. The incumbent should be able to demonstrate ability to quickly learn any language or tool required for the job.

Position Requirements

D. Academic Qualification:

■ Phd ■ Master's ☐ Degree Others (Please specify) _____

☐ Engineering ■ Information Technology ■ Science ☐ Marketing / Business

☐ Finance / Management ■ Others (Please specify) Computer Science, Engineering, Applied Math/Science, Statistics, Quantitative social sciences or related field

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 (Please specify) _____

F. Technical Skills	G. Soft Skills
Ability to provide production-ready data science solution with high accuracy, robustness and scalability.	High-value personal qualities - critical thinking and problem solving skills, ability to influence, work in teams, resourceful, responsible, tenacious and independent.
Ability to pick-up the right tool (including Big Data technologies) which is available for performing data analytics.	Proficient in English and Bahasa Malaysia – oral & written, in all work and social settings.
Minimum 6 years of experience in distributed computing, data mining, machine learning, and statistics related work.	Good presentation skills - Able to explain and get the buy in for the model developed to address specific use cases.
Programming experience with Python, R, C/C++, and/or Java.	Able to present at all levels of the organization.
Strong mathematical, statistical or actuarial background.	
Must have hands-on experiences in data mining, machine learning, predictive analytics and statistical modeling tools such as Mahout, MLib, R, Python etc.	

Additional Preferences
N/A

Related Job Match
N/A