



### About Esri Malaysia

*We are a multi-national organization specializing in enterprise software solution for large public sector customers, GLC and corporates in Malaysia. We expanded our business to Malaysia in 1983 and have since developed a loyal customer base leveraging on strong brand recognition, globally proven solution and industry expertise in Malaysia, South Asia and USA. We have largest market share and business growth is promising. Existing pool of resources can provide high quality consultancy services, project implementation and comprehensive customer support. However due to rapid growth we seek qualified and enthusiastic professionals with various skill sets and positive attitude to be part of our growth expansion.*

# AI Consultant

### Overview

The AI Consultant (AIC) will perform a wide variety of statistical and analytical techniques using the ArcGIS API for Python and other Web GIS tools along with other open source or proprietary analytic tools and capabilities.

As an AIC, you will develop deep learning models using libraries such as PyTorch or Tensorflow and create APIs and tools for training and deploying them on satellite imagery. If you are passionate about deep learning applied to remote sensing and GIS, developing AI and deep learning models, and love maps or geospatial datasets/imagery, this would be the right role.

We are looking for an entrepreneurial, collaborative person with strong hands-on experience and solid track record with statistical analysis, machine learning, predictive analytics, software engineering, and passion to build world class predictive location analytics solutions for our customers.

Key accountabilities	
»	Delivering high-quality scalable applications
»	Business discipline
»	Contribution to the team
»	Productivity
»	Innovation

## Role and responsibilities

- » Develop ready-to-use production grade geospatial AI models, tools, and solutions.
- » Integrate ArcGIS with popular deep learning libraries such as PyTorch/Fast.ai or TensorFlow/Keras.
- » Develop APIs and model architectures for computer vision, natural language processing or 3D deep learning applied to geospatial datasets.
- » Develop and pitch data science solutions by mapping business problems to machine learning or other advanced analytics approaches
- » Build high-quality analytics systems that solve our customers' business problems using techniques from data mining, statistics, and machine learning
- » Design, test, release, and support AI capabilities in the ArcGIS platform to enhance overall product quality and applicability for supporting data science and deep learning workflows with imagery.
- » Author and maintain geospatial data science samples using ArcGIS and machine learning/deep learning libraries.
- » Curate and pre/post-process data for deep learning models and transform it into geospatial information
- » Perform comparative studies of various deep learning model architectures.
- » Support internal teams in developing and pitching data science solutions by mapping business problems to machine learning or other advanced analytics approaches
- » Keep up to date with the latest technology trends in machine and deep learning and help position them in project delivery
- » Engage with our customers by discovering the value of location within customer workflows and driving substantial return on their investment in our system and services by creating outstanding proposals and winning work with strategic customers
- » Implement best practices and patterns for geospatial machine learning and develop reusable technical components for demonstrations and rapid prototyping

## Personal requirements

### Core Skills and Attributes

- » 2+ years of practical machine learning experience or applicable academic/lab work
- » Familiarity with one or more of the following: Git, Pytorch, Tensorflow, CUDA/GPU programming
- » Familiarity with ArcGIS suite of products and concepts of GIS
- » Knowledge of deep learning for natural language processing, probabilistic programming, and reinforcement learning
- » DevOps/MLOps experience using Docker/Kubernetes
- » Experience interacting with AWS, Azure, or other cloud service
- » Knowledge of remote sensing concepts and experience in handling geospatial datasets including satellite imagery, 3D point clouds/meshes, LiDAR, and other geospatial datasets
- » Experience in building and optimizing supervised and unsupervised machine learning models including deep learning and various other modern data science techniques
- » Experience with applied statistics concepts
- » Experience developing software collaboratively in Python using version control
- » Ability to perform data extraction, transformation, loading from multiple sources and sinks
- » Self-motivated, life-long learner
- » Strong communication skills, including to non-technical audiences
- » Degree in mathematics, statistics, computer science, physics, or a similar field