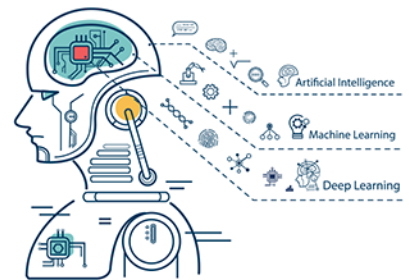


ARTIFICIAL INTELLIGENCE

What is AI?

AI is a machine/ algorithm with the ability to solve problems that are usually done by humans with their natural intelligence. It is the science and engineering of making intelligent machines, especially intelligent computer programs*.



Who are AI specialists?

AI specialists are the one who can:

- Develop, test, and deploy AI models
- Convert machine learning models into APIs
- Build models
- Understand the model



Why assessments for AI?

Support critical talent decisions for AI development, deployment, and other operations through objective and reliable talent measurement specific to the organization across multi-faceted skills and knowledge areas.



* A Computer would demonstrate a form of intelligence when it learns to improve itself by solving these problems

How to Identify Talent – Requirements

I need to identify and hire potential candidates for Artificial Intelligence for different job roles. I do have a few candidates but:

Umm.. While I need to hire candidates possessing some expertise
Do they have desired level of domain expertise?
Do they have tool knowledge and hands-on experience?

Are they good at communicating with others?

Do they possess good problem solving skills?

Are they technically sound?

Do they have the basic knowhow of AI and ML?

Do they have the knowledge of concepts of Modern Mathematics and Statistics and can they apply them?

And talking about some specialized roles
How can I check the concepts or programming knowledge required for a specialized role?

Can they learn fast and are they trainable?







Are they a culture and role fit or not?

Do they possess good programming skills?

While I need to assess all these but I also want to save my interview bandwidth
How can I do that?



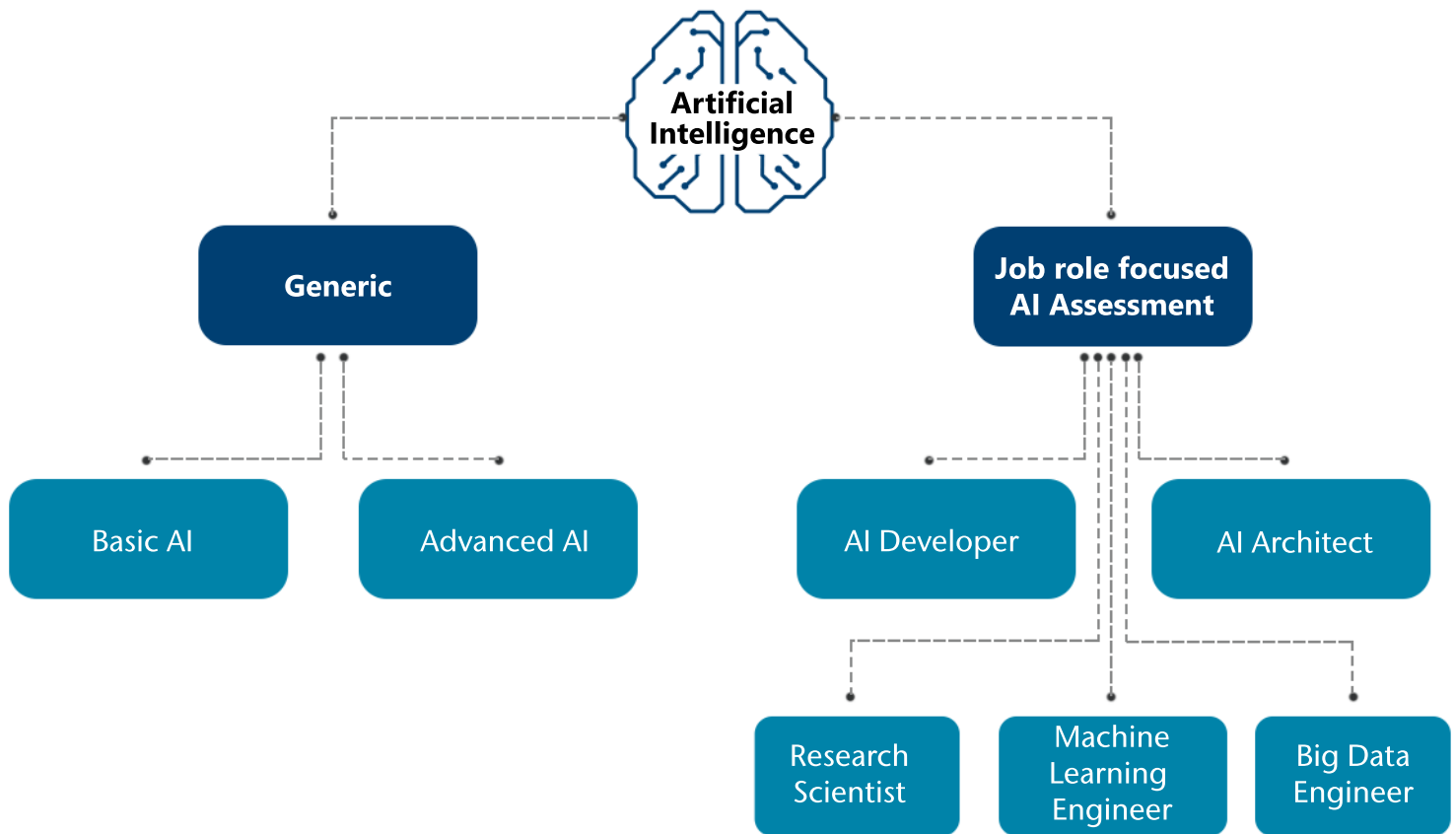
Mapping Requirements to Assessments

Requirements	Abilities/Knowledge Areas	Assessment Name	
 <p>General mental ability and reasoning capacity Should possess learning and training agility Should be proficient in Communication</p>	<p>Analytical Ability Quantitative Ability Reading Comprehension WET (Written English Test)</p>	<p>Cognitive Ability (20 items) Communication Skills (1 item)</p>	<p>35-50 Minutes</p>
 <p>Linear Algebra, Probability, and Statistics Basic Knowhow of AI and ML Data structure and Algorithm</p>	<p>Basic AI and ML concepts Concepts of SQL Modern Mathematics and Statistics Data Structure and Algorithm</p>	<p>Generic Domain Skills (20 – 30 items)</p>	<p>20-30 Minutes</p>
 <p>Specific skills required for each specialization</p>	<p>AI Developer AI Architect Machine Learning Engineer Research Scientist Big Data Engineer</p>	<p>Specialized Domain Skills (20 – 30 items)</p>	<p>20-30 Minutes</p>
 <p>Should possess coding/ programming ability to write code that are logically correct, complete and algorithmically efficient.</p>	<p>Coding problems at various difficulty levels (L1 to L4) Data Science with Python, Java, R SQL Query Problems</p>	<p>Coding Simulation</p>	<p>20-30 Minutes each</p>
 <p>Should possess certain behavioral aspects and preferences that are critical for successful performance in the role</p>	<p>Result & Goal Orientation Systematic Approach Readiness to Learn Flexibility, etc.</p>	<p>Work-Related Behavior*</p>	<p>15-20 Minutes</p>

* Optional Module



Artificial Intelligence – Tracks



Generic Assessments will be relevant for the roles which require candidates to have a basic understanding of AI (can either be useful for supporting roles or act as building blocks for more specialized AI roles)

The Role-based Assessments will cover the specific technologies required for the mentioned relevant job roles.

Artificial Intelligence– Specializations



AI Developer

- **Programming Language**
- **Framework**
- Algorithm
- Probability and Statistics



AI Architect

- **Advanced Programming language**
- **Big Data**
- Machine learning- Basic and Advanced
- Statistical Analysis



Big Data Engineer

- **SQL**
- **Big Data**
- **Programming Language**
- Machine Learning Basics



Research Scientist

- **Advanced SQL**
- **Machine learning Frameworks**
- **Programming Language**
- Feature Extraction
- Deep Learning
- Advanced Machine Learning
- Data and Text Mining















Machine Learning Engineer

- **SQL**
- **Machine Learning Frameworks**
- Machine Learning Concepts
- Data Structures and Data Modelling

The sections marked as bold will have options to pick from

Options

Programming Language			
Framework			
Big Data			
SQL			

Assessment Solution *(Role-Wise Evaluation Framework)*

The relevance / importance of each evaluation method differs across the typical roles and their corresponding experience brackets – the table below indicates the recommended criticality

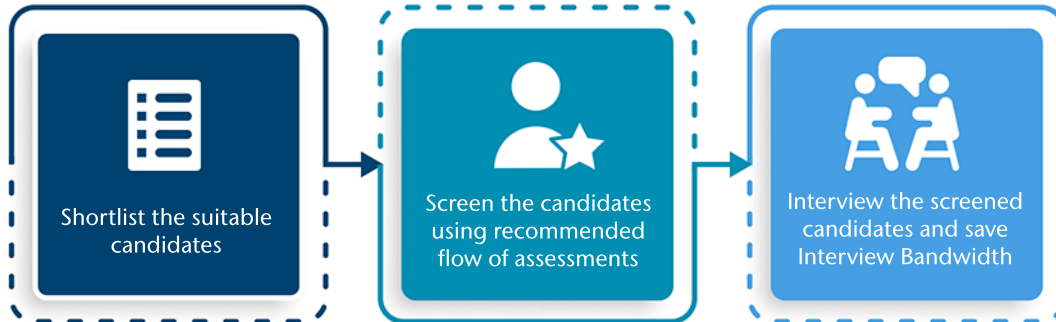
Package	Specialisation	Cognitive Ability & Communication Skills	Domain Specific	Coding Simulation	Work-Related Behaviour
Generic	Basic (Supporting roles)	High	Moderate	Low	Low
	Advanced	Moderate	High	Moderate	
Job role focused *	AI Developer	High	Moderate	High	Low
	AI Architect	Low	High	High	High
	Machine Learning Engineer	High	High	High	Moderate
	Research Scientist	Moderate	High	High	High
	Big Data Engineer	Moderate	High	High	Moderate

● Low ● Moderate ● High

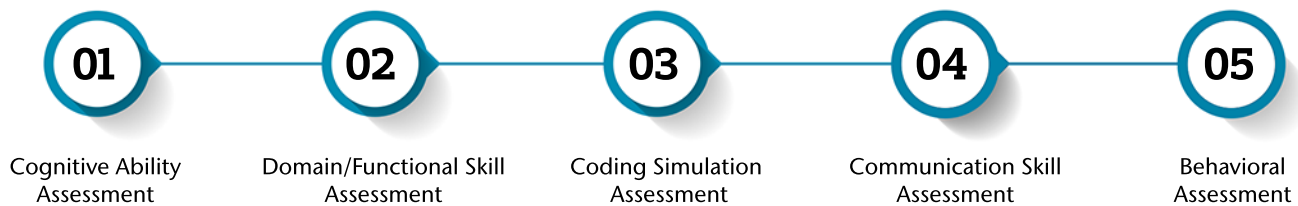
* Job Role focused assessments will assess both the basic domain knowledge (which will be the same across specializations) and the specialization specific knowledge (which will be different for each specialization)

Assessment Flow

For any role, a holistic approach to candidate evaluation ensures information is captured on all skills / abilities / competencies for better decision making. The following is the recommended flow to assess and hire best fit candidates for the role, though this can be configured/ customized as per client's requirements.



Recommended Flow of Assessments



About Assessment Solutions

Aon's Assessment Solutions includes the cut-e and CoCubes brands and operates as part of Aon's global Human Capital solutions, helping clients achieve sustainable growth by driving business performance through people performance. Aon's Assessment Solutions group undertakes 30 million assessments each year in 90 countries and 40 languages.

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