

THINK TANK
BY LAB45

Foundational AI Models and preserving diversity

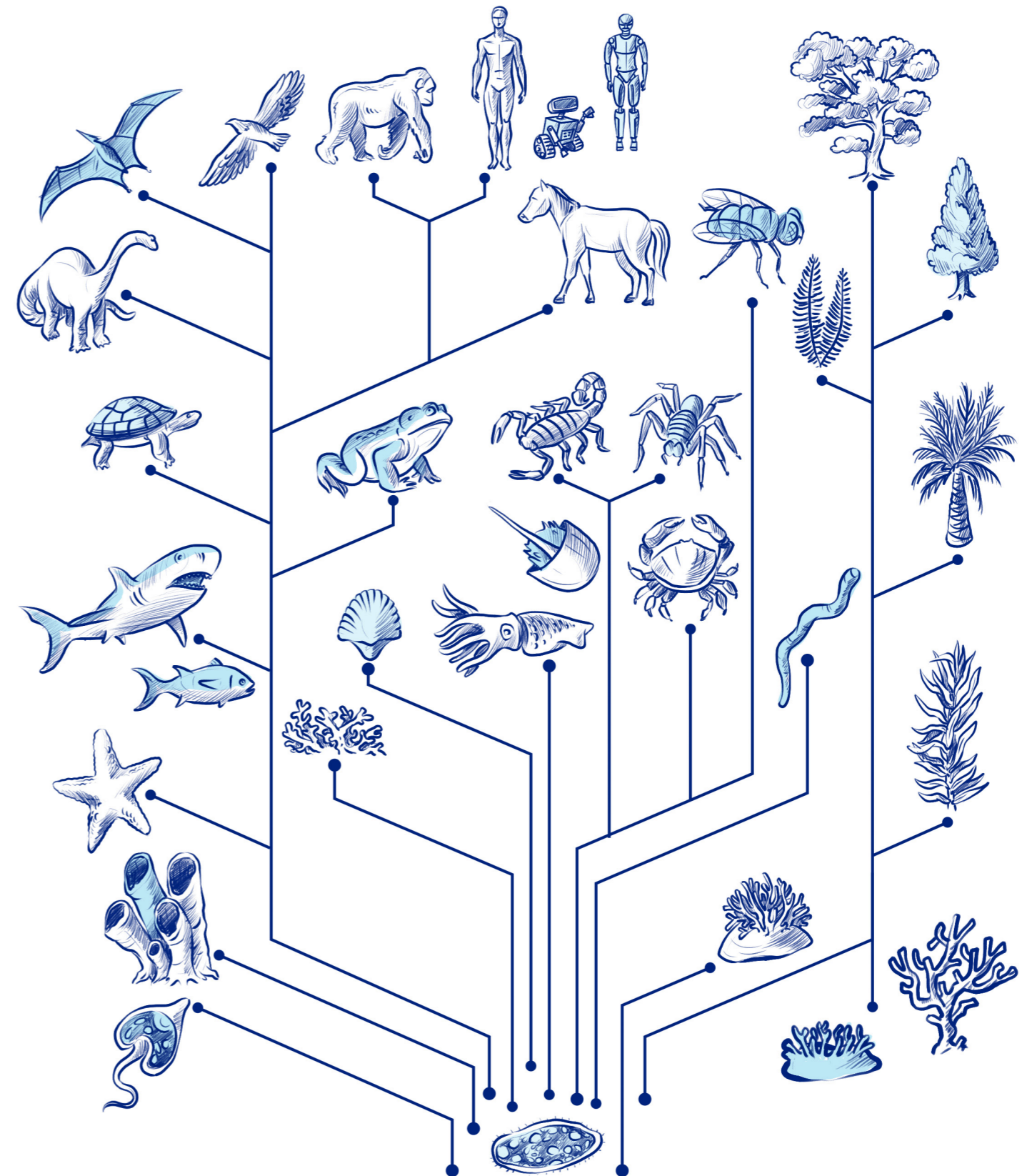
**Break
the box**

Arvind Ravishunkar questions AI's future, considering genetics and thought's pivotal roles in human evolution.

Diversity is not just a sufficient condition for evolution, it is a necessary condition.

Genetic Diversity

Diversity in genetics is the foundational principle of evolution. Every newborn organism has a slightly different genetic makeup. This genetic variance in each newborn organism in combination with the varied environments that it lives in leads to infinite permutations and combinations of outcomes. Through the process of natural selection these permutations



and combinations are down selected. This has been our evolutionary process for the last 3 billion years. There is no exception to this rule. This insight was brought to our consciousness by Charles Darwin.

Thought Diversity

Recently, I have begun to see that along with genetics which is a physical attribute, there is another important attribute that is influencing the course of evolution. Infact, it is already a part of our evolutionary biology and has been influencing our evolution in the last 2 million years as homo sapiens. It is the concept of thought. Evolution has changed from just being influenced by a physical attribute, genetics, to also being influenced by a mental attribute, thought. Our ability to understand, reason, remember and imagine when combined with our emotional makeup and our environment leads to infinite possible permutations and combinations. These permutations and combinations of thought lead to a lovely diversity among human beings and has led to humanities progress. Here are some examples of the influence of thought in our evolution: the selection of mathematical intelligence in our universities, the selection of linguistic intelligence in our journalism and books, the selection of musical intelligence in our entertainment, the choice of gender in our way of being,

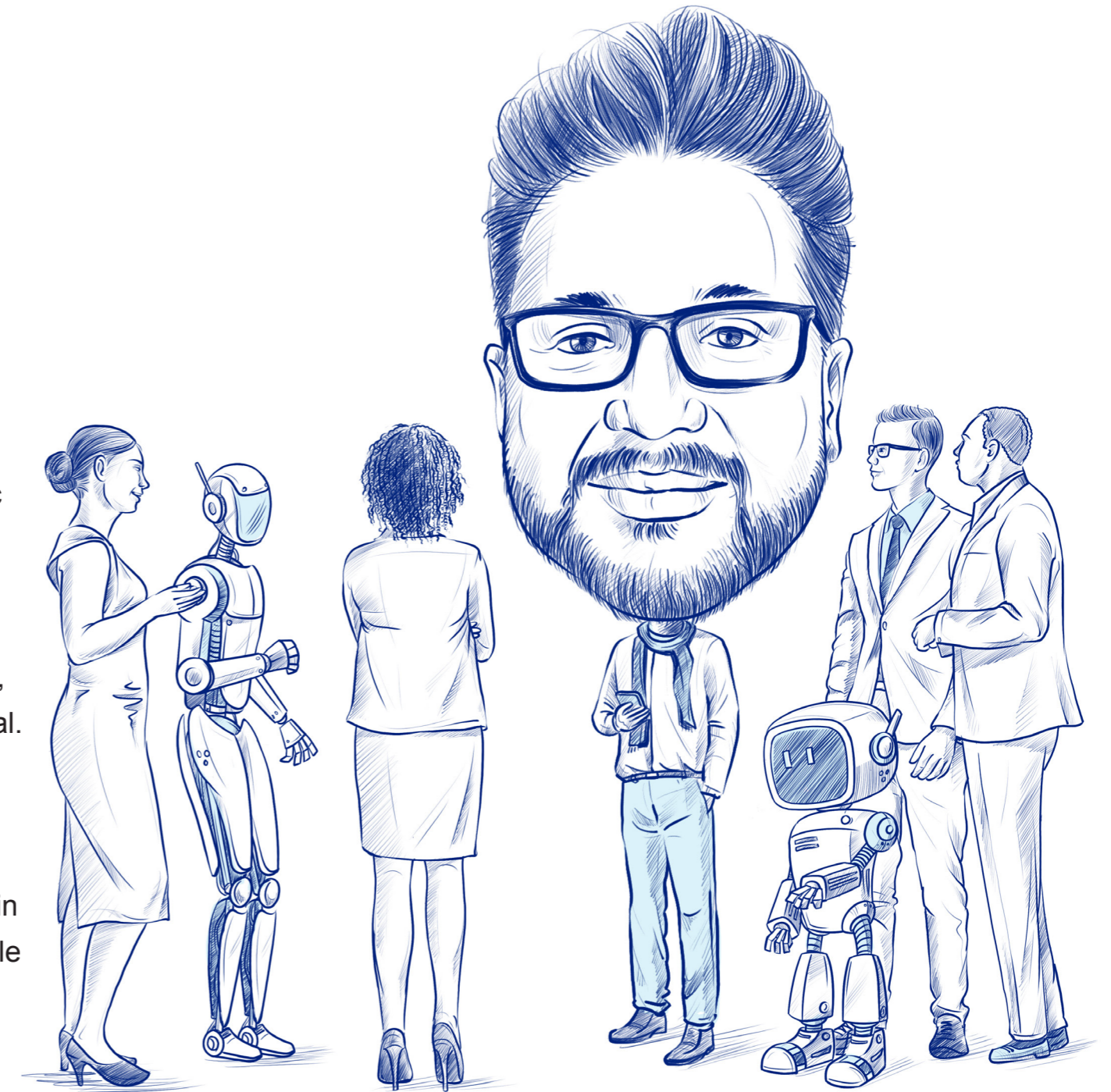
the choice of procreation methods and others. All these selections are no more being made by the natural world of genetics, but by human thought.

While genetics have been the driver for evolution so far, thought will be the driver for the evolution going forward.

Preserving Diversity

As we integrate foundational AI models into the fabric of society, it is important to ensure that a limited set of thought processes are not standardized. Diversity in foundational models through diversity of training scenarios that account for diversity in logic, emotions, race, gender, age, morals, likes, dislikes, etc. is critical. Diversity in foundational models is as important to evolution as diversity in human thinking.

While genetics and thought played an important role in our evolution, what attribute will play an equivalent role in AI of the future?





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Wipro Limited

Doddakannelli, Sarjapur Road
Bengaluru – 560 035, India
Tel: +91 (80) 2844 0011
Fax: +91 (80) 2844 0256
wipro.com

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