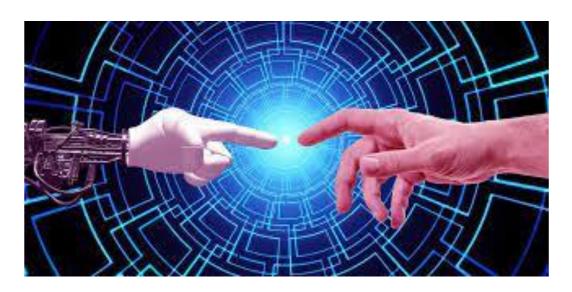# Probus Neutral Bay Guest Speaker – Tues. 11th JUNE 2024

JEFF BURGESS – Student of Artificial Intelligence

"Artificial Intelligence [AI] – Past, Present and Future"

Introduction – Artificial Intelligence can best be described as the simulation of human intelligence processes by machines, especially computer systems. It does this by simulating human intelligence through the use of algorithms, data and computational power. [Complex!]

The implementation of AI has already had a major impact in various aspects of daily living through social media platforms, iPhones, robots, google photos and face and voice recognition. The next waves of development are too numerous to mention. The biggest challenge will be adapting to the pace of this change where technology controls more of our everyday life.

It is to our peril if we fail to understand this intriguing development.

Our Guest Speaker – Jeff Burgess.

Jeff's career was in various technical and architecture roles in IT departments of both Federal and State governments and private companies. His work briefly touched on the early struggles of AI but his post-graduate academic study has covered AI technology and developments. He retired before the very big AI advances of recent times but has dedicated his time to experiment with AI systems privately and to follow and study AI's progress closely. As such, he is well qualified to help us better understand this complex arena.   He currently lives in Willoughby.

His Presentation - The history of AI spans from early theoretical foundations by pioneers like Alan Turing to modern advances in neural networks and deep learning. There are already innovative applications such as image recognition, virtual assistants, improved robotics etc and the last year or two has revealed substantial advances in language understanding and language and image generation.

But there are also serious current problems such as biases in algorithms, privacy concerns, employment impacts and ethical implications. Future risks include job displacement and challenges in AI governance but many opportunities also lie ahead.

Jeff will cover these areas, making it easier for us to understand.