Certainly! In the realm of technology, **swarm intelligence** refers to the collective behavior of decentralized, self-organized systems—both natural and artificial. [These systems exhibit emergent behaviors arising from simple rules followed by individual agents, leading to intelligent global behavior](https://en.wikipedia.org/wiki/Swarm_intelligence) [1](https://en.wikipedia.org/wiki/Swarm_intelligence). Now, let’s explore some free learning resources to delve deeper into this fascinating field:

1. **AI Singapore Student Outreach Programme**: This initiative promotes AI literacy and proficiency among students. It offers three levels, equipping participants with programming skills and practical experience in AI projects. [Completion of each level earns an industry-recognized certificate, and level three participants receive the Google professional machine learning engineer certificate](https://en.wikipedia.org/wiki/Swarm_intelligence) [2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
2. **SkillsFuture@NS Learning eXperience Platform**: Designed for full-time national servicemen (NSFs), this platform provides free unlimited access to over 75,000 online courses. [Topics include Python programming, machine learning, management training, and digital photography](https://en.wikipedia.org/wiki/Swarm_intelligence) [2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
3. **Coursera**: Coursera offers numerous free courses, some from renowned universities. [Learn about machine learning, game theory, COVID-19 contact tracing, microeconomics, and more](https://en.wikipedia.org/wiki/Swarm_intelligence) [2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
4. [**General Assembly**: Explore General Assembly’s free resources, including workshops, webinars, and tutorials on tech-related topics](https://en.wikipedia.org/wiki/Swarm_intelligence) [2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
5. **PBS LearningMedia - Swarm Robotics**: Discover how multiple robots behave like a swarm in this video from NOVA. [It explores communication and collaboration among individual robots, achieving more as a group than individually](https://en.wikipedia.org/wiki/Swarm_intelligence) [3](https://www.pbslearningmedia.org/resource/nvmms.sci.eng.swarm/swarm-robotics/).

Feel free to dive into these resources and expand your knowledge in the exciting world of swarm intelligence! 🚀🐝