Certainly! Let’s dive into the world of **dependencies in technology**.

## What Are Dependencies in Tech?

In a nutshell, **dependencies in tech** refer to the relationships between different software components or tasks. When one component relies on another to function correctly, we have a dependency. For instance, if a software application uses a library to query a database, that application depends on the library. [If the library is unavailable or not functioning properly, it can disrupt the application’s functionality1](https://www.sonatype.com/launchpad/what-are-software-dependencies).

## Types of Software Dependencies:

1. **Direct Dependency**: Explicitly defined and used by a software component. For example, a JavaScript function requiring the lodash library has a direct dependency on it.
2. **Transitive Dependency**: Indirectly used by a software component. [If the lodash library itself relies on the underscore library, the function has a transitive dependency on underscore, even if not explicitly declared1](https://www.sonatype.com/launchpad/what-are-software-dependencies).

## Free Learning Resources:

1. [**AI Singapore Student Outreach Programme**: Offers AI literacy and practical experience for students, including industry-recognized certificates and internship opportunities](https://www.sonatype.com/launchpad/what-are-software-dependencies)[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
2. [**SkillsFuture@NS Learning eXperience Platform**: Provides free access to over 75,000 online courses, including Python programming and machine learning, for national servicemen (NSFs) in Singapore](https://www.sonatype.com/launchpad/what-are-software-dependencies)[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
3. [**Coursera**: Offers many free courses from renowned universities, covering topics like machine learning, game theory, and more](https://www.sonatype.com/launchpad/what-are-software-dependencies)[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
4. [**Mozilla Developer Network**: A resource for learning web development technologies such as HTML, CSS, and JavaScript](https://www.sonatype.com/launchpad/what-are-software-dependencies)[3](https://www.projectmanagement.com/discussion-topic/67755/Please-explain-about-technical-dependencies-with-examples--these-are-not-mandatory-dependencies-as-per-PMBOK--).
5. [**Udemy**: Provides free online courses on various subjects, including technology](https://www.sonatype.com/launchpad/what-are-software-dependencies)[4](https://www.linkedin.com/pulse/10-free-websites-help-you-learn-tech-skills-fabio-tongson).

Remember, understanding dependencies is crucial for successful project management and software development. Happy learning! 🚀📚

[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills): [New Year, New Tech Skills!](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills) [4](https://www.linkedin.com/pulse/10-free-websites-help-you-learn-tech-skills-fabio-tongson): [10 Free Websites to Help You Learn Tech Skills](https://www.linkedin.com/pulse/10-free-websites-help-you-learn-tech-skills-fabio-tongson)