**CSE / EEE / ETE 499B (Section 02)**

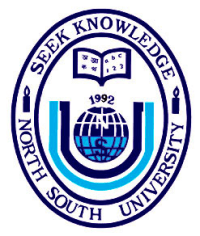
**Moder Tool Usage Report (CO4)**

**Project Title: Comparative Analysis of Different CNN Architectures on Potato Leaf Disease Detection and Classification using Transfer Learning Approach**

**Submitted To**

**Dr. Shazzad Hosain (SZZ)**

**Date: 10/06/2023**



**Group-07**

**Members**

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# **Design tools used**

1. Lucidchart: Used for creating various design diagrams such as system architecture diagrams, flowcharts, and class diagrams.
2. Microsoft Word: Used for creating and formatting design documentation for the research paper.
3. LaTeX Template: Used for formatting and typesetting research papers with mathematical equations, symbols, and references.

# **Coding / development tools used**

1. React.js: A JavaScript library used for building user interfaces and front-end development.
2. Node.js: A JavaScript runtime environment used for server-side scripting and back-end development.
3. PyCharm: An integrated development environment (IDE) specifically designed for Python development, providing code analysis, debugging, and other features.
4. Visual Studio Code: A lightweight and versatile code editor used for various programming languages and web development.
5. GitHub: A web-based platform for version control, collaboration, and hosting of Git repositories.

# **Test / validation tools used**

1. Python Programming Language: Used for writing test scripts and validation code, as well as for implementing the core functionality of the system.
2. Google Colab: An online platform for running Python notebooks that provides a GPU-enabled environment.
3. FastAPI: A modern, fast (high-performance), web framework for building APIs with Python 3.7+ based on standard Python type hints. It is used for launching a local server to create a website for testing the machine learning model and displaying prediction results.
4. Git: A distributed version control system used for tracking changes in source code during development, enabling collaboration and managing different code versions.