



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

SECB3203-01(PROGRAMMING FOR BIOINFORMATIC)

Semester 01 2025/2026
Section 01

Progress

Faculty of Computing

Dataset:

<https://www.kaggle.com/datasets/uciml/mushroom-classification>

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1.0 Software and Hardware Requirements

1. Software Requirements

- Operating System : Windows 11
- Programming Language : Python 3.13
- Development Environment : Visual Studio Code
- Libraries : pandas, numpy, matplotlib, scikit-learn
- Dataset Source : Kaggle

2. Hardware

- **Processor (CPU):** The central processing unit is responsible for executing all program instructions and handling computations. A modern processor allows data operations and analysis tasks to be performed quickly.
- **Memory (RAM):** Sufficient RAM is needed to load the dataset and perform multiple data operations without slowing down the system.
- **Storage:** Storage is needed to save the dataset, code and results safely.
- **Graphics Processing Unit (GPU):** Having a GPU can accelerate plotting and rendering of visualizations in some environments.

Component	Specification
Processor (CPU)	Intel® Core(TM) i5-8350U or equivalent
Memory (RAM)	16.0 GB / 32.0 GB
Storage	At least 1 GB free space
GPU	8 GB

2.0 Flowchart of Proposed Approach

