

# Weekly Report: Tasnuba Islam-Alpha AI

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## Week-01 (April 27 - May 2)

### 1. Machine Learning specialization:

#### a. Course 01: Supervised Machine Learning: Classification and Regression

- i. Completed first course from the series of machine learning specialization and learned about supervised vs unsupervised machine learning, the difference between regression and classification tasks.
- ii. Built a basic regression model to understand how it works.
- iii. Studied hypothesis functions and cost function.
- iv. Learned about the gradient descent, vectorization, feature scaling and explored learning rates and convergence.

### 2. Documentation on Object Oriented Programming

- a. Took a session of OOP and later on prepared a documentation on related concepts.
- b. Practiced a few basic codes from OOP and implemented 4 basic principles of OOP through code to improve my knowledge.
- c. Took a session on GitHub and practiced how to use it and submitted my OOP documentation via GitHub.

- d. Learned about different software development cycle and how Agile methodology work in real industry. Used Trello to understand how we can keep track of any ongoing project.