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# Certification: Letter of Recommendation

It is my pleasure to certify that **Rajit Palit Atri** has successfully completed the Python, Machine Learning and Deep Learning Course (Service 4) at Mahdy Research Academy, under my supervision and the guidance of my team of Young Experts. I am writing this letter of recommendation after thoroughly reviewing all the **assignments submitted during the course**, **which included 63 recorded lectures of 31.5 hours.** Detailed description of the course has been provided below.

**Python Programming**:
  - Number of Lectures: 2
  - Total Duration: 3 hours and 4 minutes

The Python course (Syllabus) provides an introduction to the language, ensuring that the learner can write Python code with ease. It includes an introductory lecture, followed by a specialized session focusing on Object-Oriented Programming, particularly for those with prior experience in C programming.

**Machine Learning Course**:
  - Number of Lectures: 45
  - Total Duration: 18 hours and 49 minutes

The Machine Learning course (Syllabus) is designed for both beginners and intermediates, making complex mathematical concepts more accessible. The course covers key topics such as Cross Validation, hyperparameter tuning, overfitting vs underfitting, and Ensemble Learning through both theoretical explanations and practical coding demonstrations. Upon completion of this course, learners will be equipped with the skills to work on machine learning projects suitable for research publication.

**Deep Learning Course:**
  - Number of Lectures: 16
  - Total Duration: 11 hours and 37 minutes

The Deep Learning course (Syllabus) includes fundamental concepts presented in an easy-to-understand manner, with necessary mathematical concepts explained using first-year university mathematics. The course also emphasizes practical coding demonstrations, ensuring learners gain hands-on experience with real-world deep learning applications.

**Rajit Palit Atri** has demonstrated a solid understanding of the concepts covered in the course and has actively completed both theoretical and practical coding exercises, achieving an overall score of 80%. We are confident that **Rajit Palit Atri** now possesses the knowledge and skills to apply python, machine learning and deep learning techniques in research and industry projects. We congratulate **Rajit Palit Atri** on the successful completion of this course and wish them continued success in their future endeavors.

[Please note: **I have not certified anyone who scored below 80%**. This letter is issued only to those who completed the assignment with proper care and accuracy. A list of the recommendation holders for this service 4 of Mahdy Research Academy can be found in this link:
More about our service 4 of Mahdy Research Academy can be found in this link:
https://sites.google.com/view/mahdyresearchacademy/service-4?authuser=0]

If you have any further queries, please feel free to contact me.

Dr. Mahdy Rahman Chowdhury.

Signature:
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