**Muhirwa Salomon**

**Grading system (1): 100%**

**DESCRIPTION OF ATTENDED COURSES (2)**

1. **Please provide three courses at most in calculus and/or mathematical analysis. If you attended more than three, please provide only three courses that are relevant to basic topics such as set theory, real numbers, functions of real variables, differential and integral calculus, multivariate calculus, sequences and infinite series, ordinary differential equations.**

| **Course Title (3)** | **Main contents (4) [min. 100, max. 500 characters]** | **Books used (5)** | **Hours (6)** | **Grade (3)** |
| --- | --- | --- | --- | --- |
| **Limits**: | Differential Calculus:  **Limits**: the behavior of functions as the input approaches a certain value  Derivatives: the instantaneous rate of change of a function at a specific point  Integral Calculus: | Engineering Mathematics.  Mathematics for Machine Learning | 35 |  |
| Differentiation rules:  Applications of derivatives: | **Differentiation rules:** techniques for finding derivatives of more complicated functions  **Applications of derivatives**: optimization, related rates, and curve sketching | Engineering Mathematics.  Mathematics for Machine Learning | 35 | 75 |
|  |  | Engineering Mathematics.  Mathematics for Machine Learning | 35 | 75 |

1. **Please provide one course in linear algebra. If you attended more than one, please provide one that is relevant with respect to linear spaces, matrices, solution of linear systems, eigenvalues, eigenvectors.**

| **Course Title (3)** | **Main contents (4) [min. 100, max. 500 characters]** | **Books used (5)** | **Hours (6)** | **Grade (3)** |
| --- | --- | --- | --- | --- |
| Integration techniques: | methods for finding integrals of more complicated functions | Engineering Mathematics.  Mathematics for Machine Learning | 50 | 80 |

1. **Please provide no more than two additional mathematics courses, preferably in the areas of numerical analysis and/or probability. Please give priority to basic courses rather than to advanced ones.**

| **Course Title (3)** | **Main contents (4) [min. 100, max. 500 characters]** | **Books used (5)** | **Hours (6)** | **Grade (3)** |
| --- | --- | --- | --- | --- |
| Numerical Methods: | This course covers techniques for approximating solutions to mathematical problems that cannot be solved analytically | Engineering Mathematics.  Mathematics for Machine Learning | 50 | 80 |
|  |  |  |  |  |

1. **Please provide a list of programming languages you studied (no more than three). For each programming language, provide details of one course in which you learned how to use it.**

| **Programming Language** | **Course Title (3)** | **Books used (5)** | **Hours (6)** | **Grade (3)** |
| --- | --- | --- | --- | --- |
| Java | Android App Development | Android App Development | 50 | 70 |
|  |  |  |  |  |
| Python Programming | Fundemental of Machine Learning | Python “For Machine Learning | 70 | 85 |

I verify under my full responsibility that I have given correct and true information on all of the above.

Date and place Signature A picture containing text

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27/02/2023