Muhirwa Salomon

Grading system [1]: 100%

DESCRIPTION OF ATTENDED COURSES [2]

a) **Please provide three courses at most in <mark>calculus and/or mathematical analysis.</mark> 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	

1. Define the grading system adopted in the university where you attended the courses you are going to list below (e.g. A, B, C, D, or a 100-point scale, or "a 1-5 scale" with 5=max, 1=min).
2. By "courses" we mean "course units", "modules", "subjects", not the whole academic programme.
3. **Required field**. Enter the same data as the one stated in your transcript of records, e.g. Algebra 1
4. **Required field**. Use **minimum 100, maximum 500 characters** (spaces included) to describe the topics of each course.
5. Not required but, if possible, please enter author, title and publisher.
6. Estimated information referring to the total number of hours (e.g., 45 hours corresponding to 3 hours/week in a 15-week semester).

Course Title [3]	Main contents [4] [min. 100, max. 500 characters]	Books used [5]	Hours [6]	Grade [3]
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

b) **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

c) **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.**

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4. **Required field**. Use **minimum 100, maximum 500 characters** (spaces included) to describe the topics of each course.
5. Not required but, if possible, please enter author, title and publisher.
6. Estimated information referring to the total number of hours (e.g., 45 hours corresponding to 3 hours/week in a 15-week semester).

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

d) **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

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4. **Required field**. Use **minimum 100, maximum 500 characters** (spaces included) to describe the topics of each course.
5. Not required but, if possible, please enter author, title and publisher.
6. Estimated information referring to the total number of hours (e.g., 45 hours corresponding to 3 hours/week in a 15-week semester).

Programming Language	Course Title [3]	Books used [5]	Hours [6]	Grade [3]
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

27/02/2023

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