

Por la presente certifico que **D. GÖKTUG ASCI** ha cursado el **Programa Master in Business Analytics and Big Data** de IE School of Human Sciences and Technology, en la convocatoria de **octubre de 2020**, obteniendo las calificaciones que se detallan a continuación:

I hereby certify that Mr. GÖKTUG ASCI has completed the Master in Business Analytics and Big Data Program at IE School of Human Sciences and Technology, October 2020 intake. He completed the following courses with the grades indicated below:

| Subject | Grade* | Weight** |
|--|-------------|----------|
| ATTENTION FOR HIGH PERFORMANCE | NGS | 0 |
| WORKING IN TEAMS | NGS | 6 |
| BUILDING THE DATASCIENCE TOOLKIT I | NGS | 4 |
| SQL & DATA MODELLING | Excellence | 15 |
| R PROGRAMMING | Excellence | 20 |
| MATHS & STATISTICS FOR ANALYTICS | Proficiency | 15 |
| GIVING WINNING PRESENTATIONS | NGS | 6 |
| MACHINE LEARNING I | Excellence | 20 |
| BIG DATA & ARTIFICIAL INTELLIGENCE IN BUSINESS | Proficiency | 15 |
| INTRODUCTION TO BIG DATA ARCHITECTURES | Honors | 15 |
| BUSINESS INTELLIGENCE & DATAWAREHOUSING | Excellence | 15 |
| COGNITIVE CHALLENGE | Proficiency | 5 |
| DATASCIENCE INDIVIDUAL COMPETITION 1ST ATTEMPT | Proficiency | 3 |
| SOCIAL NETWORKS ANALYSIS | Excellence | 10 |
| STATISTICAL PROGRAMMING - PYTHON | Excellence | 20 |
| DATA VISUALIZATION | Excellence | 12 |
| BUILDING THE DATASCIENCE TOOLKIT II | NGS | 0 |
| SPARK | Honors | 16 |
| MACHINE LEARNING II | Honors | 16 |
| NOSQL DATABASES | Excellence | 10 |
| RECOMMENDATION ENGINES | Excellence | 10 |
| FORECASTING TIME SERIES | Excellence | 12 |
| INFLUENCE & PERSUASION | NGS | 0 |
| DATASCIENCE INDIVIDUAL COMPETITION 2ND ATTEMPT | Excellence | 3 |
| GROUP DATATHON 1ST ATTEMPT | Honors | 6 |
| MACHINE LEARNING III | Honors | 15 |
| NATURAL LANGUAGE PROCESSING & TEXT MINING | Honors | 14 |
| BUILDING THE DATASCIENCE TOOLKIT III | NGS | 0 |
| STREAM PROCESSING & REAL-TIME ANALYTICS | Honors | 13 |
| COMPUTER VISION | Excellence | 10 |
| ADVANCED PYTHON - B | Honors | 10 |
| DIGITAL ANALYTICS | Honors | 10 |
| MLOPS | Honors | 10 |
| RISK, FRAUD & BANKING ANALYTICS - B | Excellence | 10 |
| BIG DATA & HEALTH - B | Excellence | 10 |
| GROUP DATATHON FINAL ATTEMPT | Pass | 12 |
| DATASCIENCE INDIVIDUAL COMPETITION FINAL ATTEMPT | Excellence | 3 |

* Comparative Grading System: Pass 15 %, Proficiency 35 %, Excellence 35 %, Honors 15 % of the class, Fail Unsatisfactory performance.

** Business School credits system: 1 credit IE = 5 sessions of 1.5 hours.

Final Grade: Excellence
Graduation date: July 23, 2021

Y para que conste y surta los efectos que al interesado pudieran convenir, firmo y sello el presente certificado en Madrid a 20 agosto de 2021.

The undersigned hereby certifies and stamps, for the purposes that the interested party may require, the present certificate in Madrid, August 20th, 2021.

F^{do}/Signed: Miriam Fernández de Caleyá Dalmau Ph.D.
Secretaria General / General Secretary
IE Universidad / IE University

