Juan José Madrigal Martínez

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Mathematician interested in Educational Technology, willing to explore new ways to bring advanced Mathematics to the world. Especially gifted for

• Understanding and mastering Mathematics, interrelating all areas and branches

• Lecturing and teaching difficult or abstract concepts, both for beginners and experienced

Remarkable quick learning

SKILLS

Programming Languages: Python **Web Design:** HTML5 / CSS₃ / JS

Version Control Systems: Git & GitHub Typesetting: كاتوكا

Machine Learning: SciKitLearn Languages: Native Spanish, Proficient English,

Operating Systems: Linux, Windows German and French

Mathematics Softwares: SageMath, Mathematica

PROJECTS

Creating Customer Segments Udacity MLND - Customer Segments Project

Nov. 2016

• Successfully implemented in **python** using the libraries of **SciKitLearn**

• Used PCA and Gaussian Mixture Model

• Reached **0.41** Silhouette Score for clustering

Train a Smartcab to Drive Udacity MLND - Smartcab Project

Dec. 2016

- Successfully implemented in **python** and **pygame**
- Reached A Ratings for Safety and Reliability

EXPERIENCE

CEO of Mathifold Project http://mathifold.org/

Madrid | March 2014 - Present

[free, open-source online mathematics for students, teachers and workers]

- Leading 15+ collaborators including mathematicians, computer scientists and engineers
- Added 250+ posts including theory, exercises, animations and applets, among other useful materials
- Recorded 800+ users and 12000+ views in the last 3 months

Lecturer & Tutor at Faculty of Mathematics

UCM | Sept. 2014 - Present

- Lectured Intro to Mathematics, Linear Algebra, Real Analysis, Probability & Statistics, Algebraic Topology
- Taught and tutored 200+ students both for undergraduate and graduate courses

EDUCATION

Udacity Machine Learning Nanodegree

Master in Advanced Mathematics 9.81/10 - 3.75/4

Degree in Mathematics 9.92/10 - 3.87/4

Udacity | Sept. 2016 - Feb. 2017 UCM | Sept. 2013 - Jul. 2014 UCM | Sept. 2009 - Jul. 2013

AWARDS

Extraordinary End of Studies Award Honourable Mention Gold Medal

UCM 49th International Mathematics Olympiad, IMO | Madrid | 2008 44th Spanish Mathematics Olympiad | Valencia, Spain | 2008