Miguel Sebastián de la Mata

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Education

Appalachian State University ● *Boone, NC*
<u>Master of Science (MS) in Applied Data Analytics</u> Concentration: Sustainability Analytics (GPA 3.6; August 2019)
<u>Bachelor of Science (BS) in Appropriate Technologies</u> (GPA 3.33; December 2017)
<u>Bachelor of Arts (BA) in Spanish Literature, Language, and Cultures</u> (GPA 3.33; December 2017)

Relevant Experience

Data Scientist: Appalachian State University Center for Analytics Research and Education
Boone, NC ● (August 2019-Present)

Clean data and run analysis on commercial beekeeper data in cooperation with the UN Food and Agriculture Office to analyse the economic feasibility of applying blockchain technology within commercial bee products. Create a curriculum for an online analytics certification program offered through the university with cooperation from SAS and INFORMS. Develop slides, data sets, exercises, and dashboards for lessons ranging from project management to building neural networks. Serve as technical support for students.

Graduate Research Assistant: Appalachian State University Dept of Economics
Boone, NC ● (June 2018-August 2019)

Studied the effect of behavioral "nudges" on residential energy consumption patterns in cooperation with New River Light and Power and the Appalachian Energy Center. Collected, ordered, and cleaned data from research participants to the system database.

Appalachian State University Dept of Technology *Boone, NC ● (Jan-May 2017)*

Designed programs and built circuits using a combination of Arduino, Xbee, and the university's Dashboard server to implement a mesh framework topology remote data monitoring system of environmental conditions at Blackburn Vannoy Farm, an off-campus research farm for the Departments of Sustainable Technology and Sustainable Development.

Appalachian State University Dept of Technology *Boone, NC ● (Aug-Dec 2016)*

Designed and developed a program and circuit using an Arduino microcontroller to accurately measure power usage of the Katherine Harper Building for use in third party data analysis using 5V pulses from the building's utility supplied power meter.

Technical Skills

Python (pandas, numpy, sklearn, matplotlib, seaborn, BeautifulSoup, requests, datetime)
R (tidyr, dplyr, stringr, ggplot2, lubridate, sqldf, forecast, tseries, randomforest, nnet, shiny)
SAS ● SQL ● Shell ● Probability/Statistics ● Forecasting Time-Series Models ● Data Cleaning/Manipulation
Machine Learning ● Agile PMF ● Git ● Spanish (proficient)

Additional Experience

Carolina Fintech Hub 2018 Fall University Hackathon - Team Member, Appalachian State University, University Finalist Oct 2018 -Developed an Android/IOs mobile application using Python to help Millennials invest more in sustainable and socially conscious Mortgage Funds and ETFs with a team representing the university.
BB&T Emerging Leaders Program - Certified Fall 2018 by the BB&T Leadership Institute.