

# Juliana Henao

Mathematics, Data Science and Computing  
Mathematical Engineering  
EAFIT University, Medellin

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## EDUCATION

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- **EAFIT University, Medellin** Jan. 2018 - Dec. 2022  
*Bachelor of Engineering, Mathematics* GPA: (4.20 / 0.0-5.0)

## EXPERIENCE

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- **Bonnett Analytics** Nov. 2022 - Today  
*Data Scientist (freelance)* Medellin, Colombia
  - Implement and deploy, using AWS and Python, recommendation models to recommendation models for sales price estimation
- **Protección** Jan. 2022 - Jul. 2022  
*Quantitative Analysis Intern* Medellin, Colombia
  - Improved the automation of processes to make financial analysis for the pension fund.
  - Developed an algorithm which compares 5+ models that solve the optimization problem of Portafolio Selection to find the best way to invest in the available portfolios.
- **EAFIT University** Jul. 2021 - Dec. 2021  
*Academic Tutor of Statistics* Medellin, Colombia
  - Conducted 2+ daily hours of consulting to more than 20 students of several careers, in order to improve their knowledge and understanding of any statistical subject.
- **Teleperformance** May. 2021 - Jul. 2021  
*Bilingual Agent* Medellin, Colombia
  - Provided customer service support, solving purchase and delivery issues to customers from the UK.
- **EAFIT University** Jul. 2019 - Dec. 2019  
*Academic Tutor, Differential and Integral calculus, Differential Equations Course* Medellin, Colombia
  - Directed 10 hours every week of math lessons to 25+ students of Engineering, helping them to understand topics of the subjects.

## RESEARCH EXPERIENCE

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- **Film Synopsis Analysis using Robust Clustering and Robust Regression** Medellin, Colombia  
*EAFIT University* Jun. 2021
  - With the help of Natural Language Processing, robust clustering and regression methods; the rating given by the audience can be predicted and patterns can be found within the films that have the most success in the commercial market.
  - **Tools & technologies used:** Python, Pandas, PyTorch, Transformers, Beautiful Soup
- **Metasearching Engine for Used Vehicle Purchase** Medellin, Colombia  
*EAFIT University* Jun. 2022
  - Created a Metasearch Engine and a Ranking Indicator System, as full stack web developer. Which, respectively, have the purpose of collecting data from 2+ shopping websites and building indicators and recommendations.
  - **Tools & technologies used:** Django, SQL, Python, Beautiful Soup, Pandas

## KEY COURSES TAKEN

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- **Relevant Coursework:** Statistics, Robust and Non-parametric Statistical Techniques, Advanced Multivariate Statistics for Machine Learning, Artificial Intelligence, Numerical Analysis, Computer Graphics, Databases, Probability theory, Biology for Engineers, Optimization, Heuristics, Data Structures and Algorithms.

## SKILLS

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- **Programming:** Python, C++, R, Java, Matlab, SQL, HTML, Excel
  - **Libraries/Frameworks:** Django, Bootstrap, Tensorflow, Scikit-learn, Transformers, Beautiful Soup, Pandas
  - **Languages:** Spanish (Native), English (Advanced), German (Basic)
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