

Andry J. Becerra V.

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Machine Learning Engineer with a background in Mechanical Engineering

A Mechanical Engineer specialized in **Machine Learning**, supported by a robust trajectory in **design and engineering**. I stand out for my **ability to collaborate, precise communication, and decision-making based on data analysis**. I am seeking an opportunity as a Machine Learning Engineer that allows me to strengthen and expand my skills in an innovative and high-impact environment.

Skills

- Advanced programming in **Python**, applied to optimize design processes and build custom solutions.
- Experience with **TensorFlow, Scikit-learn, and Keras** in work environments and personal projects to develop highly accurate **Machine Learning models**.
- Data analysis and visualization with tools like **Pandas, NumPy, Matplotlib, and Seaborn** to provide valuable insights and support marketing strategies.
- Solid knowledge in **statistics, linear algebra, calculus, and optimization** applied to the construction and improvement of Machine Learning models.
- Ability to improve the **accuracy of Machine Learning models** using **optimization techniques and hyperparameter tuning**.
- Excellent **communication and problem-solving skills** in high-impact and collaborative environments.

Projects

- **Medical expense prediction:** Developed a **Linear Regression** model using **Scikit-Learn**, achieving an 85% accuracy in predicting medical expenses.
- **Customer churn analysis:** Implemented a **Logistic Regression** model with Scikit-Learn, identifying key factors in customer churn.
- **Country segmentation:** Conducted a **clustering** analysis to segment countries according to socioeconomic data, providing valuable insights for marketing strategies.
- **Image classifier:** Developed an **image classifier** for humans and horses using **Deep Neural Networks**, achieving a 95% accuracy.

Education

Universidad del Táchira (UNET): Mechanical Engineering, 2007.

Relevant Courses in Machine Learning

- In the course "**Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning**" I acquired skills to build and optimize **Deep Learning models**.
 - With the courses on **Logistic Regression, Linear Regression, and Clustering** with **Python** and **Scikit-Learn**, I developed essential competencies in modeling and data analysis for effective prediction and classification.
 - The courses on **Data Visualization with MATPLOTLIB and SEABORN** and **Data Manipulation and Transformation with Pandas and Numpy** have allowed me to carry out effective data analysis, essential in any Machine Learning project.
- (More details at: <https://andryjbv.github.io>)

Work Experience

- **VMCA, Project Engineer, 2007-2021:** Responsible for the design of products for national and international clients using Computer-Aided Design (CAD) and Computer-Aided Engineering (CAE) technologies. I implemented basic programming in C++, Arduino, and **Python**, increasing the efficiency of the design process.
- **C21, 2018-present:** Co-founder of a company that develops virtual systems for personalized teaching to children and teenagers in school. I used my programming and **project management** skills to create customized and effective solutions.

Idiomas

Spanish: Native.

English: Advanced (B2-C1 Core training program, Platzi English Academy).