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Career Profile

Industrial Engineer and Data Scientist with experience in the development and application of classification models, regression, clustering, natural language processing, transfer learning and computer vision. Specialized in the implementation of solutions oriented to solve business problems.

Professional Experience

Seguros Bolívar SA

2023-2024

IT Developer

- Design and implementation of RESTful APIs with Java and SpringBoot
- APIs consumption using Angular and TypeScript
- Development of microservices architectures
- Database development
- database management using JDBC, ORM/JPA
- creation of triggers and packages in PL/SQL

VIA ELEVADORES

2022

Intern - Data Analyst

I led a cost analysis project for supplies and inventories, implementing the ABC methodology to restructure the warehouse and warehouse. This allowed optimizing the reception and dispatch of materials, prioritizing those with the highest cost impact. I achieved a 20% reduction in inventory times and a 15% improvement in operational efficiency.

Education

Universidad Francisco de Paula Santander

Cúcuta, Co

Industrial Engineer

November 2023

Relevant courses: linear programming, data analysis, statistics, multivariable calculus, supply chain management, simulation, quality control, production planning. management, simulation, quality control, production planning. I dedicated 15 hours per week to the Research Seminar on Technology and Operations Management. – **SIGTO**.

Universidad Central

Bogotá, Co

Statistical Methods for Data Analysis – Certified

August 2023

Relevant courses: descriptive data analysis, probability theory, inferential statistics, linear data analysis, multivariate data analysis, time series analysis. analysis, multivariate data analysis, time series analysis.

IBM

IBM Data Science Professional Certificate – Specialization

May 2023

Relevant courses: programming with Python, tools for data science, applied data science, databases and SQL for data science, Data Visualization, Python for data science, AI and development, data science methodology, Machine Learning with Python.

DeepLearning.AI

Mathematics for Machine Learning and Data Science – Specialization

September 2023

Relevant courses: Bayesian statistics, linear algebra, calculus, probability and statistics.

Universidad de Stanford & DeepLearning.AI

Machine Learning – Specialization

May 2024

Relevant courses: supervised learning, regression and classification, advanced learning algorithms, unsupervised learning, recommender and reinforcement learning.

Technical Skills and Projects

Programming languages:

Python (Advanced), SQL (Advanced), R (Basic), Java (Intermediate), JavaScript (Intermediate), TypeScript (Intermediate).

Cloud:

AWS (Advanced), GCP (Intermediate), Azure (Basic).

MLOps:

MLFlow (Intermediate), DVC (Basic), Dagshub (Intermediate), GitHub (Advanced), CICD(Intermediate).

Tools:

Office 365 (Advanced), Power BI (Basic), Excel (Advanced), SQL Server (Advanced), Big Query (Basic), Jupyter Notebook (Advanced), Looker Studio (Advanced).

Machine learning and Data Science:

PyTorch (Advanced), TensorFlow (Advanced), SciPy (Advanced), Scikit-learn (Advanced), Natural Language Processing (NLP) (Intermediate), NLTK (Advanced), NumPy (Advanced), Apache Spark (Basic), Pandas (Advanced), Folium (Advanced)

Web Frameworks:

Streamlit (Advanced), Flask (Intermediate), Angular (Intermediate)

Agile Methodologies:

Scrum, Kanban, Waterfall

Deep Learning Project: Kidney Cancer Classifier

I developed a model using VGG16 architecture to classify kidney images labeled as "Tumor" or "Normal". The project optimizes diagnostic accuracy using advanced Deep learning techniques and image preprocessing.

Project link: <https://github.com/CJ7MO/Kidney-Disease-Classification-Deep-Learning-Project>

NLP Project: Text Summarizer

I developed a text summarization model using the PEGASUS architecture, optimized to generate accurate text summaries. I implemented NLP and Deep learning techniques for data preprocessing and model training.

Project link: <https://github.com/CJ7MO/Text-Summarization-NLP-Project>

Computer Vision Project: Football Analysis

I trained the YOLOV5 model to detect and track players, referees and balls in real time, using advanced techniques such as Kmeans to assign teams automatically. I measured ball possession and calculated the speed and distance traveled by players using optical flow and perspective transformation.

Project link: <https://github.com/CJ7MO/Football-Analysis-Project>

Machine Learning Project: Wine Quality Prediction

Developed and implemented a machine learning model with ElasticNet to predict wine quality based on chemical characteristics. I used data preparation and model optimization techniques, managing model serialization and storage with joblib.

Project link: <https://github.com/CJ7MO/End-to-end-Machine-Learning-Project-with-MLFlow>

Data Analysis Project:

I performed data analysis of Uber data using GCP Storage, Python, and Compute Instances. I implemented pipelines with Mage Data Pipeline Tool, stored and queried data in BigQuery, and created visualizations in Looker Studio to identify key patterns and trends.

Project link: <https://github.com/CJ7MO/uber-etl-pipeline-data-engineering-project>