Flavio Pereira Loss

Machine Learning Engineer

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Technical Skills

Python — Proficient in procedural, functional and object-oriented programming, with a focus on Python and its associated frameworks, including NumPy, PyTorch, and TensorFlow.

Optimization and Deep Learning — Experienced in applying optimization techniques such as gradient descent, in order to develop complex deep learning models.

SQL, Statistics, and Exploratory Data Analysis — Skilled in leveraging SQL for data retrieval and analysis, as well as employing statistical methods and exploratory data analysis techniques.

Generative AI with a focus on NLP and Transformers — Proficient in developing generative models for Natural Language Processing tasks using state-of-the-art techniques like Transformers.

Continuous Integration and Deployment (CI/CD) for Machine Learning Models — Experienced in deploying ML models using tools like Docker, creating APIs, and utilizing cloud environments.

Big Data Solutions using Spark — Experienced in working with Spark for processing and analyzing large-scale datasets.

Core Competencies

Remote Agile Team Experience — Proficient in working remotely within agile teams, delivering results through effective collaboration and communication.

Clean and Efficient Code — Strong advocate for writing well-designed, testable, and efficient code.

Self-Taught Learner — Driven by a passion for continuous learning and curiosity, always seeking to create and build new things.

Positions

Data Scientist — Dasa   Apr 2022 — Present

I specialize in creating Spark pipelines to efficiently process extensive databases and build models for identifying high-need, high-cost patients. Additionally, I excel in developing NLP models, including regex-based approaches and generative transformer models, to accurately interpret medical reports and infer patient conditions.

Data Scientist — AEVO   Nov 2020 — Apr 2022

I specialize in developing advanced NLP algorithms to enhance sentence similarity and unlock new functionalities within our company's SAAS platform. To achieve accurate and efficient inference, I leverage the power of transformers architecture and utilize pre-trained models. For continuous integration and deployment (CI/CD), I employ Fast API in conjunction with Docker.

Education

During my undergraduate studies in engineering, I undertook an extensive research project focused on the classification of skin cancer. The research paper, titled "Deep and Machine Learning Approaches to Skin Cancer Classification Using NIR Spectrum Data of Skin Lesions," explored the application of advanced algorithms to analyze Near-Infrared (NIR) spectrum data collected from skin lesions.

B.S. in Industrial Engineering – Federal University of Espirito Santo   Jan 2017 — Dez 2022