Agustin Arias

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📍 Buenos Aires, Argentina

Experience

AI Engineer | *Python, Pyspark, Langchain, Docker*   Oct. 2024 – Present
Remitz - Recovering unpaid or underpaid medical claims by leveraging AI and proprietary access to big data.   *SAN JUAN*
- Developed Scalable Data Pipelines: Built and optimized PySpark-based ETL pipelines for ingesting and processing unstructured medical billing data from diverse sources, including EDI, HL7, and CSV formats.
- Implemented AI-Powered Claims Processing: Designed and deployed deep learning models leveraging GPT and NLP to extract and analyze key information from medical claims, enabling automated decision-making and enhanced claim processing efficiency.
- Integrated Secure and Compliant Data Handling: Ensured compliance with HIPAA and OAuth 2.0 regulations by implementing secure data transfer mechanisms via SFTP and integrating privacy-preserving AI techniques.

Machine Learning Engineer | *Python, Pytorch, Tensorflow, Pyspark, SparkSQL*   (1yr 4mo) Jul. 2023 – Oct. 2024
Revelen.ai   *Buenos Aires, Argentina*
- Proficiently trained deep learning models in the field of computer vision, specializing in tasks such as instance segmentation, classification, and pattern recognition.
- Integrated transformer models from Hugging Face for advanced generative AI and content protection solutions.
- Executed data visualization and annotation processes through the utilization of a premium labeling tool, like Labelbox.
- Integrated LangChain and LlamaIndex to develop scalable AI applications, enhancing conversational AI capabilities.
- Leveraged Pinecone for efficient vector search and retrieval, significantly improving the performance of semantic search applications.
- Hands-on experience with transformer models, including GPT, and fine-tuning them for specific use cases.

Machine Learning Engineer | *Python, TensorFlow, Scikit-learn, PyTorch, Airflow*   (1yr 8 mo) Dec. 2021 – Jul. 2023
Vairix - Nearshore Software Development Boutique   *Montevideo, Uruguay*
- Designed and implemented generative AI pipelines for US-based clients, including applications in synthetic content creation and advanced analytics.
- Achieved a performance level 150% greater than peers, aiding colleagues with methods to boost productivity.
- Developed and deployed machine learning models using TensorFlow and PyTorch, improving data-driven decision-making for clients.
- Utilized AWS and Google Cloud platforms for scalable model deployment and distributed training.
- Employed FastAPI and Pydantic to create robust, scalable APIs for machine learning models.

ML & Data Science Engineer | *Python, TensorFlow, Keras, Scikit-learn, PyTorch*   (1yr 6 mo) Jul. 2020 – Dec. 2021
NextGo - Products and Services on Demand   *Miami Beach, Florida*
- Played a crucial role in a major project providing automation and services to a hospital, utilizing machine learning techniques to enhance service delivery and operational efficiency.
- Addressed critical issues promptly, increasing team productivity by 50%.
- Gained extensive experience with Kafka for event-driven architecture, applying machine learning models for real-time data processing and analysis.
- Strengthened skills in Python and popular machine learning frameworks, including TensorFlow, Keras, Scikit-learn, and PyTorch, to drive data-driven insights and solutions.

Education

An Introduction to Machine Learning   Buenos Aires, Argentina
Digital House   Mar. 2020 – Aug. 2020

Master's in Mathematics   Buenos Aires, Argentina
University of Buenos Aires (UBA)   Aug. 2019 – Dec. 2023

Technical Skills

Languages: Python (NumPy, Pandas, Scikit-learn, Pydantic), TensorFlow, Keras, PyTorch.
Databases: AWS, GCP, Azure, Vector Databases, Pinecone, MySQL, SQL (PostgreSQL), DyamoDB.
Deep Learning: Transformer models, Hugging Face, LLMs, Diffusion Models, YOLOv8, Mask R-CNN.
Cloud Platforms: AWS, Google Cloud, Azure.
Tools & Frameworks: Hyperparameter Tuning, Distributed Training Frameworks, Version Control (Git), MLOps Tools.