RODRIGO MASINI

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**SUMMARY**

Lead MLOps Engineer with 20+ years of experience, with extensive 12+ hands-on experience in building ML platforms and implementing MLOps best practices. Recognized as a top 1% AI/ML subject matter expert by AWS and Azure. Databricks MLOps product SME. Specializes in industrializing ML solutions for Forbes 500 customers using MLOps foundations and transformation roadmaps. Expert in MLOps, development practices for generative LLM (GPT), prompt engineering, Feature Stores, Registry and CI/CD processes. Book author in MLOps and recognized MLE by MLOps and Data Science associations and communities.

**SKILLS**

MLE | MLOps | ML pipelines | CI/CD | Infrastructure as Code (IaC) | Refactoring | Model Deployment and Releasing | ML Observability | Responsible AI | ML Governance | AWS AI/ML Services & Tools | Serverless Framework |Databricks | Azure Services & Tools | Agile | Scrum | Lean Six Sigma | Project Management | Product Management | AI/ML strategy | ML Solution Architect | Forecasting | DL | NLP | LLM | ChatGPT | prompt engineering | LangChain| Computer Vision | Model Interpretability and Explainability | Data Visualization | Big Data| Distributed Systems| Adversarial attacks | Cybersecurity | IoT

**TOOLS**

Python (Pyspark, Pandas, Scikit-learn, TensorFlow, Keras, Torch, OpenAi, YoLo, NLTK, SpaCy, Prophet, Hugging Face, Dolly) | Java | R | Golang | Rust | Github | GitLab | Azure DevOps | SQL | Snowflake | Spark | Hadoop | AWS | GCP | DevOps Azure | SageMaker | Vertex AI | Docker | Flask | FastAPI | Great Expectations | Jira | Confluence | Kubernetes | Kubeflow | Mlflow | Feature Stores | Terraform | Linux (Ubuntu, Kali) | Bash | Apache Spark | Apache Flink | Airflow

**EXPERIENCE**

Tredence Inc., Lead MLOps Engineer - North America | Nov 2022 - Present

* Demonstrated technical leadership in taking a team of 20 MLE to deliver complex ML applications to production, deploying +200 ML models across 7 different markets (countries).
* Delivered end-to-end industrialization MLOps roadmap for Retail and Hospitality big brands, incrementally bringing ML components and most advanced ML runtime implementations for DL, generative LLM, NLP and time-series across multiple ML use cases running in different LOB.
* 80% reduced solution productization time by implementing automation CI/CD and retraining pipelines using Databricks Repos, Terraform, Azure DevOps, Docker and Kubernetes. Also, implemented the ML management zones methodology, which boosted current DS team morale and also leveraged skillset capability by training a new team of MLE, while maintaining project timeline and performance.
* Built innovative MLOps tools (Resource Provision, Feature engineering, Code refactoring, modularization automation) using generative LLM solutions like GPT 3.5, StarCoder, BLOOM with advanced code automation framework like CodeT and Huuging Face LLM and langchain models.
* Optimized several development and deployment frameworks (Testing, Bias and Experimentation environment in distributed GPU architectures) on AWS, Azure & GCP and Databricks by introducing middleware and ML platform upgrades and automations.

Tredence Inc., Manager of ML Engineer | Aug 2022 - Present

* Implemented and designed complex architectures for ML use cases (generative LLM), workspace management (multi-account strategy), and scale CI/CD pipelines (jobs, containerization and microservice serving) for Fortune 100 clients.
* Implemented MLOps solutions like Feature Stores, Refactoring tasks, Model releasing and monitoring workflows within Databricks tools like Mlflow and Repos, and Azure Services with an average of +2M in business outcomes by client.
* Developed and managed MLOps processes across 600 ML use cases for ML model integration and deployment with a business legacy system, both in batch and streaming consuming tasks.
* Hands-on leader with cloud-based data processing, migration, analytics, and ML program execution.

North Highland., Manager of Data Science | Apr 2022 – Aug 2022

* Served as product lead of ML projects within the integration division of the organization.
* Enabled model deployment into Databricks using dedicated, customized and governed workspace applications by integrating TensorFlow and Autoenconders models embedding DL models and hyperparameter tuning using distributed Hyperot frameworks.
* Built ML applications and models at production, proof-of-concept, and demo levels and conducted an assessment and designed MLOps roadmap planning using Databricks, Azure services, and tools.
* Implemented Model, Feature, Code, and versioning leveraging ML capabilities on SageMaker and Databricks
* Designed and implemented agile MLOps implementation focusing on code modularization, pipelines orchestration, automation of CI/CD tasks, and robust endpoint servers
* Led a 10-member team of cloud data analytics and ML professionals to build cloud-native analytics and insight platform for one of the largest renewable energy companies in the world.

Deloitte Consulting, Data Science Specialist | Jan 2021 – Apr 2022

* Consulted by AI teams across the company to improve data science and MLOps techniques and applications.
* Optimized CV and NLP(BERT) models for faster execution and accuracy using MLOps frameworks.
* Developed full stack ML pipeline focusing on MLOps practices for fraud analytics using Kubeflow
* Perform data acquisition, statistical and exploratory analysis in order to support Data Science and Advanced Analytics initiatives that improve products, processes, or services related to supply chain
* Developed advanced models for sales opportunity scoring, account scoring, and more

TS Immigration, MLE | Jan 2020 – Dec 2020

* Ensured smooth workflow by preparing designs for new data science and machine learning centric products.
* Established a training set of billions of data points spread over numerous backend systems (SQL and NoSQL dbs) and third-party APIs, increasing the accuracy of predictive models for each work visa modality.
* Utilized comment classification in Tensorflow to develop an engine for categorizing millions of legal documents in order to comprehend pain points in visa petitioning processes to USCIS.
* Developed full stack ML pipeline focusing on MLOps practices for fraud analytics with Vertex AI and Kubeflow

IBusiness Health, Lead MLE - South America (remote) | Jan 2019 – Dec 2019

* Built models predicting adverse outcomes after surgeries and healthcare provider performance
* Led and collaborated with contractors on the construction and co-building of AWS infrastructure through the utilization of EC2, docker containerization, auto-scaling, and ECS.
* Responsible for statistical data accuracy of point-of-sale data for all clients driving millions in revenue.
* Updated Dev and NonProd Landing Zone (AWS Account with all Baselines setting) via AWS Account Creation Terraform template provided by the EA(Enterprise Architect) Team.
* Created the production Landing Zone (AWS Accounts with all Baselines setting) via AWS Account Creation Terraform template provided by the EA(Enterprise Architect) Team.
* Set up GitHub Repository in Enterprise GitHub for source control and Artifactory Repository to store CD/CD Pipeline Artifacts.
* Terraform script to deploy Resources in AWS Cloud in NonProd Environment, and Prod Environment.
* Setup the Jenkins Server on Kubernetes Cluster (AWS EKS) to support CI/CD Deployment.

Digital Health Consultant, Advanced Consultancy for Clinics, 2010 - Dec 2018

* 4 years working in executing and leading Advanced Analytics projects(Data Science, Data mining and ML engineering), and digital transformation roadmap for the most important South American healthcare companies.

Director of Pediatrics, Hospital Santa Clara, Jan 2010 - 2014

Pediatrician, Hospital Santo Antonio, Apr 2009 - 2010

Lieutenant Physician, Brazilian Army, Jan 2008 - Feb 2009

**EDUCATION**

* Quantic School of Business and Technology | MBA, Computer and Information Sciences | 2018 - 2019
* Universidade Federal de Uberlandia (UFU) | Doctor of Medicine, Medicine | 2003 - 2008
* Universidade Federal de Uberlandia (UFU) | Bachelor's Degree, Mathematics | 2000 - 2003
* Universidade Federal de Uberlandia (UFU) | Bachelor's Degree, Physics | 1999 - 2003

**CERTIFICATIONS**

AWS Certified Machine Learning - Specialty (MLS)

AWS Certified Solutions Architect – Associate

AWS Certified Data Analytics – Specialty AWS Subject Matter Expert

Cybersecurity – CompTIA+