

Vinícius Nunes V. da Costa

Phone +55: (81) 99980-3000 · Email: viniciusnvcosta47@gmail.com · GitHub [@viniciusnvcosta](#)
· LinkedIn: [/in/vinicius-nunes-da-costa](#) · Recife, Brasil (Remote)

Data Scientist & ML Engineer

Data Scientist and ML Engineer with 4+ years of experience building and deploying AI solutions in startups and healthcare. Strong background in Python, machine learning, deep learning and MLOps on AWS and other major clouds. Experience delivering NLP/LLM, computer vision and recommender systems from prototype to production, partnering closely with product and business teams. Thriving in fast-paced environments, I remain committed to continuous learning and professional growth, ready to tackle challenging projects that align with my expertise and values.

Professional Experience

Focus Distribuidora

AI Consultant

Apr 2025 - Present

- Managed and developed sales intelligence initiatives, enhancing data-driven decision-making across the organization.
- Established a robust data governance framework, fostering a culture of analytics and accountability.
- Applied data science and machine learning concepts for churn analysis, leading to improved customer retention strategies.
- Supervised digital transformation projects in logistics, optimizing operational efficiency and reducing costs.

Vitality Health

Mid-level Data Scientist

Dez 2024 - Mar 2025

- Designed a triage system for hypertension and heart failure (HFrEF/HFpEF) that ranked medication titrations and prescription changes using patient-specific clinical constraints and AHA guidelines.
- Developed categorical encodings for comorbidities, vitals, labs, and contraindications to enable accurate and explainable clinical decision-making.
- Converted unstructured medical guidelines into structured knowledge bases and business rules to standardize and optimize medication ranking.
- Built and deployed model-as-a-service endpoints using FastAPI, Pydantic, and AWS Lambda, integrating predictive analytics into a production clinical decision support platform.
- Implemented complementary modeling strategies combining rules and models to balance personalization, safety, and guideline compliance.

Pickcells

Junior Data Scientist

Mar 2024 - Nov 2024

- Conducted clinical research and developed AI products for diagnostic support in Brazilian healthcare.
- Built an NLP/LLM pipeline to extract health scores from biosignal data directly from PDF blood work exams.
- Contributed to computer vision models for cervical cancer detection (40× microscope imagery) and acute leukemia detection in children's myelograms.
- Led MLOps initiatives, creating a Python cookie-cutter AI deployment template (ai-dat) with FastAPI, Docker and tests, reducing deployment time by ~50%.
- Co-led the data science team as a technical reference, mentoring on best practices in AI deployment.

Oncase

Data Science Intern

Nov 2022 - Dec 2023

- Designed an ensemble clustering model using Autoencoder + KMeans, improving customer segmentation quality by ~20%.
- Refactored a legacy B2B recommender system using LightFM for hybrid recommendations, optimizing product mix and pricing strategies.
- Created data visualization dashboards with Metabase and Python to deliver actionable insights for consulting clients.
- Managed Big Data pipelines with Spark and SQL, improving data quality and accessibility on cloud platforms.

Skills

- Programming & Data Science: Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Ultralytics, OpenCV
- Machine Learning & AI: Supervised/Unsupervised Learning, Statistical Learning, Deep Learning, NLP, LLMs, Recommendation Systems (LightFM)
- Cloud & MLOps: AWS (S3, EC2, SageMaker, Bedrock, Lambda, Athena, RDS, EMR), GCP (Compute Engine, Cloud Storage, Vertex AI), Azure (DevOps, VMs); Docker, FastAPI, Poetry, dbt, uv, asdf, Git, CI-friendly project templates
- Data & Analytics: Spark, Hadoop, Big Data pipelines, Oracle, ClickHouse, ETL/ELT, Data Wrangling, Exploratory Data Analysis (EDA), A/B Testing, Hypothesis Testing, Metabase, MySQL
- LLM Tooling: LangChain, Langraph, HuggingFace, Guardrails AI, Elasticsearch, retrieval-augmented generation (RAG), safety and validation for GenAI

Education

B.Sc. Computer Science

Cesar School | 2020 - 2023

- Statistics and Probability Instructor (2022)
- Machine Learning Instructor (2023)

B.A. Business Administration (dual degree)

FCAP - UPE | 2020 - 2025

M.Sc. Computer Engineering (in progress)

POLI - UPE | 2025 - Expected 2027

Certifications

- Generative AI with Large Language Models – DeepLearning.AI & AWS (2024)
- Deep Learning Specialization – DeepLearning.AI (2025)

Projects

ai-dat - AI Deployment Template

A minimalist yet scalable API template for quick deployment of Python-based AI projects. Utilized tools like FastAPI, Poetry, Docker, and Pytest, significantly reducing the time-to-deploy for AI models.

Metametrics – Computer Vision for Quality Control

Tech Lead for Metametrics, a startup focused on computer vision systems for quality control. Oversaw process monitoring systems in collaboration with students of CESAR School as part of a startup acceleration program.

SimpleCPT – Automated Clinical Coding (Bachelor Thesis)

Developed an automated clinical coding suggestion system for ICD-10 using pre-trained transformers in a rank-based learning framework. This bachelor thesis project, conducted with PickCells and a private hospital in Brazil, led to my hiring as a Junior Data Scientist.

Languages

- Portuguese: Native
- English: Proficient (CEFR C2, Michigan ECPE Test – 2023)
- Spanish: Intermediate