Carllos Watts-Nogueira

AI/ML Engineer

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AI/ML Engineer focused on building reproducible, modular pipelines that deliver business impact through intelligent automation. Experienced in developing and deploying machine learning and NLP solutions across enterprise environments, with a strong emphasis on clarity, scalability, and stakeholder alignment. Passionate about transforming data into strategic value using LLMs, prompt engineering, and visual storytelling.

TECHNICAL SKILLS

Languages: Python, SQL
Tools/Libraries: TensorFlow, Keras, Scikit-learn, PyTorch, LangChain, Hugging Face, Pandas, NumPy, Matplotlib, Seaborn, Plotly, OpenCV.
Applied AI: Modular Workflow Design, Model Optimization, Prompt Engineering, Generative AI, NLP Pipelines
Business Delivery: Executive Reporting, Visual Dashboards, HTML/PDF Report Automation
Deployment & Tools: Gradio, Hugging Face Spaces, JupyterLab, Colab, Git
Cloud & APIs: AWS, REST APIs, Salesforce (SOQL), CRM Integration

Certifications:
AWS Certified Machine Learning Engineer - Associate (In Progress - Expected: February 2026)
Salesforce Certified AI Associate (Achieved: December 2024)
Salesforce Certified Associate (Achieved: April 2023)
Salesforce Certified Service Cloud Consultant (Achieved: July 2022)
Salesforce Certified Administrator (Achieved: July 2020)
Copado Certified Administrator (Achieved: July 2020)
Scrum Foundations Professional Certificate SFPC (Achieved: July 2020)

TECHNICAL PROJECTS

BikeEase Ad Generator Generative | AI Engineer | August 2025 | https://bit.ly/4fZUkSj
- Developed a modular, LLM-powered system to generate persuasive bike rental advertisements based on user inputs. Integrated Hugging Face models and LangChain for prompt orchestration, and deployed the app with a Gradio front-end on Hugging Face Spaces. Structured outputs into six branded sections to ensure consistency and business readiness.
- **Technologies / Skills**: Python · Hugging Face Transformers · LangChain · Gradio · Prompt Engineering · Modular Design · Generative AI · Text Generation · Deployment · Reproducibility

Employee Turnover Prediction -HR Analytics for Retention Strategy | ML Engineer | July 2025 | https://bit.ly/47e4n3K
- Predictive classification project developed. Designed a full workflow to forecast employee attrition using clustering, resampling (SMOTE), and classification models with 5-fold cross-validation and ROC curve analysis. Delivered insight-driven retention strategies across four risk zones.
- **Technologies / Skills:** Python · Scikit-learn · SMOTE · KMeans · Logistic Regression · Random Forest · Gradient Boosting · ROC/AUC · Confusion Matrix · PCA · Feature Engineering · EDA · Jupyter Notebook · matplotlib · seaborn.

Hourly Bike Rentals Forecasting (Florida) | **ML Pipeline Developer** | July 2025 | https://bit.ly/3J2mjnS
- Built and evaluated regression models to forecast hourly bike rental demand using weather and temporal features. Explored feature engineering, PCA, polynomial expansion, and interaction terms across four modeling pipelines.
- **Technologies / Skills:** Python · JupyterLab · Pandas · Scikit-learn · Matplotlib · Feature engineering · PCA · Lasso regression · Model validation · Regression Models.

Sales Analysis — Q4 Apparel Performance (Australia) | **Data Scientist** | June 2025 | https://bit.ly/4fmHXPW
- Data-driven analysis of Q4 apparel sales across Australian states and demographics, delivering actionable insights and visualization dashboards for strategic planning.
- **Technologies / Skills:** Python · JupyterLab · Pandas · Seaborn · Data wrangling

ADDITIONAL TECHNICAL PROJECTS

Technologies / Skills: Python, NLP, Machine Learning, Deep Learning, and Data Analytics | github.com/cwattsnogueira

ADDITIONAL TRAINING

Data Engineering on AWS Learning Plans (includes labs), AWS

Exam Prep Plan: AWS Certified Machine Learning Engineer - Associate, AWS

AWS Artificial Intelligence Practitioner Learning Plan, AWS

EDUCATION

University of San Diego   April 2025–October 2025
Powered by Fullstack Academy
Artificial Intelligence and Machine Learning
Immersive AI & Machine Learning program which utilized active learning to gain proficiency in data technologies and tools including Python, Keras, and TensorFlow, and understanding of machine learning, deep learning, and data science processes.

Higher Technical Training Institute   December 2017
Higher Technician in Systems Analysis
Focused on Systems Analysis, Computer Information Systems, and related technical disciplines. Developed a strong foundation in software architecture, systems design, and business logic analysis with practical coursework and hands-on training.

EXPERIENCE

Solution Engineer (Pre-Sales) & Consultant | SoftTech Smile | Remote | February 2024 – July 2024
- Designed and delivered Salesforce AI-driven Proofs of Concept (PoCs), leveraging Einstein Bots and Discovery to solve client pain points with workflow automation and performance optimization.
- Translated complex business requirements into scalable, data-centric architectures, enabling real-time metrics and KPIs tracking via dashboards and structured reporting.

Functional Analyst III | Ilia | Remote | October 2021 – July 2023
- Spearheaded delivery of custom cloud-based solutions across finance, healthcare, and retail by defining specifications, analyzing data workflows, and coordinating development roadmaps.
- Enabled AI-powered experiences through Salesforce Einstein Bots, Discovery, and Next Best Action, optimizing system performance for real-time analytics and automated decision-making.
- Created and delivered data-driven PoCs using Salesforce Cloud and predictive modeling, ensuring client AI-readiness and alignment with key metrics and performance indicators.
- Conducted advanced data operations including object/field design, data imports/exports, and SOQL query optimization for analytics, reporting, and automation.
- Built Salesforce dashboards to equip business consultants with real-time insights and tracked project KPIs using Amazon QuickSight, JIRA, and Excel.

Advanced App Engineering Specialist | Accenture | Hybrid | July 2019 – August 2020
- Led an 8-person team in delivering scalable Salesforce solutions for enterprise clients, aligning system design with product objectives and performance metrics.
- Implemented flows, process builders, and validation rules to streamline operations and support Salesforce Einstein AI-enhanced features.
- Configured data structures and reporting components to enable KPI tracking and business insights.
- Oversaw agile delivery across sprint cycles, backlog management, and time tracking aligned with data-driven business goals.

Functional Technical Consultant | Hendercross | Hybrid | July 2018 – January 2019
- Implemented Salesforce Sales Cloud solutions, optimized system usability, and defined platform integration requirements for improved data flow and usability.

Functional Analyst Senior | Unitech S.A. | Hybrid | June 2017 – July 2018
- Customized ERP platforms and designed database integrations (SQL Server, Oracle), ensuring data reliability and performance in government and finance systems.

Functional Technical Consultant | Inworx | Hybrid | March 2016 – June 2017
- Implemented and optimized Telesoft CRM workflows and configured integrations with Microsoft SQL Server and Oracle for consistent data and reporting accuracy.

Internal Technical Support Analyst | Open English | Hybrid | June 2014 – March 2016
- Provided technical support for Open English platforms and finance tools (Zuora), optimizing Salesforce workflows and resolving data-related incidents.
- Executed SQL queries in PostgreSQL for root cause analysis and implemented controlled data changes; maintained issue tracking using Jira.