

CHRIS DOLTON D'SILVA

AI/ML Engineering · Cloud (AWS) · AI Product & QA

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PROFESSIONAL SUMMARY

AI/ML Engineering student in Berlin (MSc Artificial Intelligence, Berlin School of Business & Innovation, in partnership with University for the Creative Arts) with hands-on experience across AI product QA, machine learning, and cloud-adjacent data engineering. Built and deployed a multimodal Retrieval-Augmented Generation (RAG) system with region-aware regulatory logic across Germany and Norway, improving retrieval accuracy from 76% to 86%. Currently pursuing AWS Certified Machine Learning Engineer – Associate, with practical grounding in GDPR and the EU AI Act. Seeking a Werkstudent role in AI/ML Engineering, Cloud, or AI Product/QA in Berlin.

SKILLS

Python · Machine Learning · Cloud Computing (AWS) · PySpark · Databricks · Power BI · Retrieval-Augmented Generation (RAG) · Data Engineering · Product QA & Usability Testing · GDPR · EU AI Act · SHAP / Model Explainability · Streamlit · Agile / Scrum · PyTorch · Generative Adversarial Networks (GANs) · Computer Vision (OpenCV) · Flask · Recommender Systems

EXPERIENCE

AI Product Development & QA Intern — Generation iTrust: wertvoll.sein

Berlin, Germany | Jan 2026 – Mar 2026

- Validated AI-based matching logic by designing structured test cases and QA workflows, resulting in documented accuracy and reliability improvements adopted by the product team
- Identified usability gaps in user flows by conducting functional and platform testing, delivering actionable feedback that shaped agile sprint priorities
- Operated within an agile QA process end-to-end, strengthening cross-functional collaboration between engineering and product

Frontend Web Developer — Generation iTrust: wertvoll.sein

Berlin, Germany | Jul 2025 – Aug 2025

- Built responsive, API-integrated interfaces by collaborating directly with backend engineers and designers, shipping a fully functional MVP
- Reduced defects pre-launch by running structured testing and debugging cycles across the frontend stack
- Applied analytical and ML-informed problem-solving to interface decisions, adding technical depth beyond typical frontend work

Machine Learning Intern — Cloud Counselage Pvt. Ltd.

Mumbai, India | Sep 2024 – Jan 2025

- Analyzed the relationship between economic background and academic performance/outcomes across a multi-attribute student dataset, using data analysis to surface actionable demographic and participation trends
- Identified event-impact and geographic-distribution patterns in student engagement data, translating findings into insights on participation drivers relevant to program design

Machine Learning Intern — NullClass

Remote | Dec 2023 – Feb 2024

- Contributed to applied machine learning tasks as part of a structured internship program, building on foundational data science and modeling skills

Data Science & Machine Learning Intern — Multiple Organizations (InternPe, CodSoft, Prodigy InfoTech, Bharat Intern, CodeClause, Oasis Infobyte)

Mumbai, India | Feb 2023 – Nov 2023

- Completed a series of short-form data science and ML internships across six organizations as a deliberate early-career skills sprint before starting an MSc
- Built and evaluated multiple ML models (classification, regression, basic NLP) across varied real-world datasets, strengthening end-to-end data science fundamentals under tight timelines
- Applied Python, Pandas, and scikit-learn consistently across projects, developing a repeatable workflow for EDA, model selection, and evaluation

PROJECTS

Regulation-Aware Multimodal Plant-Disease Assistant *(Portfolio / MSc Research Project)*

github.com/dsilvachris/regulation-aware-plant-doctor

- Built a multimodal AI assistant combining vision-based plant-disease detection with Retrieval-Augmented Generation (RAG), improving held-out retrieval accuracy from 76% to 86% through domain-specific embedding fine-tuning
- Deployed a Streamlit conversational interface with region-aware regulatory logic spanning Germany and Norway, including image upload, multi-turn context persistence, and grounded abstention behavior to prevent unsafe recommendations
- Designing an ongoing knowledge-graph-based retrieval comparison (KG-RAG vs. document RAG) as an MSc research extension, with an evaluation framework covering region correctness, faithfulness, and hallucination rate

Image Colorization Using Generative Adversarial Networks (GANs) *(Bachelor's Major Project)*

Nov 2023 – May 2024

- Developed a Conditional GAN with a U-Net generator architecture to automatically colorize black-and-white images, applying generative deep learning techniques end-to-end in PyTorch and Fastai
- Implemented and trained the full generator–discriminator adversarial pipeline from scratch, translating GAN theory into a working computer vision system

Attendance System Using Facial Recognition *(Bachelor's Team Project — Team Lead)*

Jan 2023 – May 2023

Team repository: github.com/nigel1710/Attendance-System-Using-Facial-Recognition

- Led a team building an automated attendance system using OpenCV, Haar Cascade detection, and an LBPH classifier, replacing manual attendance tracking with real-time facial recognition
- Directed development of a Tkinter-based interface for face capture and attendance-report generation, coordinating the team's build across detection, classification, and reporting components

HobbyMeet — Content-Based Recommendation Platform *(Bachelor's Project)*

Jan 2022 – Apr 2022

- Built a Flask web platform connecting users by shared hobbies and interests, including a content-based recommender system using TF-IDF vectorization and cosine similarity to match user interest profiles
- Designed the full-stack implementation end-to-end (HTML, CSS, Flask, Python), from recommendation logic through front-end delivery

EDUCATION

MSc Artificial Intelligence — Berlin School of Business & Innovation (BSBI), in partnership with University for the Creative Arts (UCA)

Berlin, Germany | Expected August 2027

BE Computer Engineering — Fr. Conceicao Rodrigues College of Engineering (University of Mumbai)

Mumbai, India | Jul 2020 – May 2024

CERTIFICATIONS

- Applied Python Data Engineering Specialization
- Data Analytics and Visualization — Virtual Experience
- Complete Guide to Power BI for Data Analysts — Microsoft Press

LANGUAGES

English (Fluent) · German (Elementary) · Norwegian (Elementary)