

# Emmanuel Delali Aggor Certified Financial Engineer (CFE)

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📍 Frankfurt, Germany

in LinkedIn

🐙 Github

## Profile

Motivated mathematics graduate student with over 2 years of hands-on quantitative experience with profound academic background in mathematics as well as financial engineering. Proficient in financial and quantitative analysis, with a keen interest in the unior Crypto Trading Analyst (EST/PST timezone) role at Kairon Labs.

## Skills

### Programming/IT Skills

Python: Pandas, Numpy, Matplotlib, Seaborn, Scipy

R : dplyr, tidyr, ggplot2

Julia: LinearAlgebra, ForwardDiff, PyPlot

SQL: Basic Query

Microsoft excel, Word, PowerPoint

### Industry and Personnal Skills

Quantitative and Data Analysis

Risk Analysis

Financial Markets and Financial Analysis

Machine Learning

Communication skills (written and oral)

## Projects

### Risk Analysis and Asset Pricing: VaR, PD, Black-Scholes Model and Machine Learning Models [🔗](#)

This project utilizes various machine learning models to model Asset Prices, Credit Risk (Probability of Default) and market risk (Value at Risk)

### Derivatives Pricing with Black-Scholes Model -- Link [🔗](#)

Implementation of the Black-Scholes model in Python to calculate call and put option prices for BASF Stock demonstrating proficiency in financial modeling and quantitative analysis.

## Professional Experience

### Intern - Risk, Big Data and Advance Analytics

Commerzbank AG

Apr 2023 – Sep 2023

Frankfurt, Germany

- Successfully performed statistical and quantitative analysis using R-programming on 3 different portfolios of the bank, identifying potential risk exposures and providing recommendations.
- Collaborated with cross-functional teams to develop efficient models

### Forage: JPMorgan Chase & Co. Quantitative Analysis Virtual Experience

JPMorgan Chase & Co. on Forage [🔗](#)

Sep 2023

Online

- Completed a simulation focused on quantitative research methods
- Analyzed a book of loans to estimate a customer's probability of default

### Data Analysis and Research - Working Student

Pixsy GmbH, Berlin-Germany

Aug 2022 – Oct 2022

Berlin, Germany

- Increased case research by about 10% through the thorough examination and reconciliation of more than 100 high-profile research cases, employing state-of-the-art researching softwares and innovative techniques to communicate recommendations.
- Validate over 100 incoming data elements with accuracy and integrity while locating and resolving issues independently with high-standards.

## Data Analysis - Internship (Volunteering)

AGLH

May 2016 – Sep 2016

Cape Coast, Ghana

- Achieved 20% discrepancy detection by efficiently utilizing Excel and DHIMS software for cleaning and analyzing large data files (3,000-10,000 records).
- Analyzed the company's brand awareness using a quantitative study by interviewing close to 60 individuals. Improvements in customer services were then updated to reflect the findings.

## Education

### Master of Science (MSc.) Scientific Computing (Mathematics)

Technische Universität, Berlin, Germany

Apr 2019 – Oct 2023

Berlin, Germany

- Numerical Mathematics, Partial Differential Equations, Risk and Uncertainty

### Certified Financial Engineer (CFE)

European Institute of Quantitative Finance

Jul 2022 – Oct 2022

Berlin, Germany

- Pricing Options : Basic and Advance option trading strategies

### Bachelor of Science (BSc.) Mathematics-with-Economics

University of Cape Coast

Sep 2013 – May 2017

Cape Coast, Ghana

- Algebra, Calculus, Econometrics

## Certificates

### Machine Learning, Data Science and Deep Learning with Python (September 2022) --Link [↗](#)

Data Analysis and Visualization

### Python for Finance: Investment Fundamentals and Data Analytics (Aug 2022) -- Link [↗](#)

Regression Analysis, Classification, Risk

### Financial Markets (March 2022)-- Link [↗](#)

Financial Derivatives, Risk Analysis such as Value at Risk (VaR)

## Languages

English



German

