

# Noel Francis D'costa

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[LinkedIn](#) | [Github](#)

## Professional Summary

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Early career **Data Scientist** and **Analyst** with hands-on experience in end-to-end machine learning projects and data analysis. Proficient in **Python**, **SQL**, **Pandas**, **NumPy**, and **Scikit-Learn**, with strong skills in data visualization using **Power BI** and **Tableau**. Experienced in building, tuning, and evaluating predictive models, with exposure to **Deep Learning** and **NLP**. Currently learning **Generative AI** and Transformer architectures to develop scalable, real-world AI solutions.

## Key Skills

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Data Analysis • Machine Learning • Deep Learning • NLP • Python • SQL • Power BI • Tableau • Model Evaluation  
Data Visualization

## Technical Skills

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- **Programming:** Python, SQL
- **Data & ML:** Pandas, NumPy, Scikit-Learn, Supervised & Unsupervised Learning, Cross-Validation, Hyperparameter Tuning
- **Deep Learning & AI:** Neural Networks, LSTM, NLP, Computer Vision, Transformers (Learning)
- **Visualization & BI:** Power BI, Tableau, Excel, PowerPoint
- **Tools:** Jupyter Notebook, VS Code, MySQL, SQL Server, Colab

## Education

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**Diploma in Data Science and Artificial Intelligence** 2025 – 2026

Boston Institute of Analytics and Technology, Bangalore

Relevant Coursework: *Machine Learning, Probability & Statistics, Data Analytics, Python Programming*

**Bachelor of Engineering - Electronics & Communication** 2021 – 2025

St. Joseph Engineering College, Mangaluru | CGPA: 8.19

## Projects

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### Twitter Sentiment Analysis (Deep Learning – NLP)

- Built an end-to-end BiLSTM-based sentiment classification model on Twitter data.
- Performed text cleaning, tokenization, and sequence padding; handled class imbalance using class weights.
- Optimized training using EarlyStopping and evaluated with accuracy, precision, recall, and F1-score; Saved trained model and tokenizer for deployment.

### Insurance Risk Classification (Machine Learning)

- Developed a predictive model to classify high-risk customers.
- Conducted data cleaning, feature engineering, and trained multiple baseline models.
- Applied K-Fold Cross-Validation and hyperparameter tuning to improve model performance and accuracy.

### Breast Cancer Prediction (Machine Learning) [Breast Cancer Prediction](#)

- Built an end-to-end ML pipeline including EDA, preprocessing, and feature scaling.
- Evaluated multiple baseline classification algorithms using K-Fold cross-validation and hyperparameter tuning.
- Selected **Random Forest** as the final model achieving **75% recall**, and deployed the model using **FastAPI** for real-time predictions.

### **Sales & Profitability Dashboard (Tableau / BI)**

- Designed an interactive dashboard to analyze sales, profit, discounts, and orders across regions and segments.
- Implemented geographic profit mapping, trend analysis, and category-wise insights for data-driven decisions.

### **Finance Report Dashboard – Power BI (BI)**

- Designed an interactive Power BI dashboard to analyze key financial metrics including sales, profit, and unit performance across products, segments, and countries.
- Built dynamic reports using **DAX measures, slicers, and filters** to enable drill-down analysis and data-driven insights.
- Created intuitive visualizations to track trends, compare performance, and support financial decision-making.

### **Certifications**

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- **Qualcomm** Artificial Intelligence Foundations
- **Deloitte** Data Analytics Job Simulation
- **British Airways** Data Science Job Simulation
- **Python** Bootcamp Certification
- **Salesforce** Administrator Virtual Internship