

Mario Dias

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Education

Master of Artificial Intelligence

RMIT University, Melbourne

Jul 2026 – Jun 2028 (expected)

Bachelor of Engineering in Computer Engineering, University of Mumbai

Fr. Conceicao Rodrigues College of Engineering, Mumbai

2018 – 2022

CGPA 9.74 / 10

Work Experience

AI & Software Engineer

UBS – Navi Mumbai, India

Jul 2022 – Jul 2026

- Built a real-time audio-based RAG assistant for the CEO, CFO, and Investor Relations team to generate context-aware, low-latency talking points during quarterly earnings calls using Azure Speech, Azure OpenAI, FAISS, and FastAPI.
- Developed ampliFi Data Integrity, a configurable machine learning-based anomaly detection system for financial datasets to early detect and prevent data quality issues, using SynapseML, Databricks and MLFlow.
- Deployed an autonomous agent for financial signoff summarization as part of the UBS ampliFi initiative, leveraging LangGraph, FastAPI, and Azure OpenAI to streamline and assist controllers.
- Won UBS India Hackathon 2024 by developing a multi-agent RAG-based AI assistant using LangChain, LangGraph, Azure OpenAI, and Azure AI Search to provide application-specific user assistance and automated incident reporting, showcasing innovation in enterprise AI.
- Designed and optimised an ETL pipeline in Databricks ingesting millions of records for daily balance-sheet reporting, using a concurrent queue to process data from 13+ regions across 100+ daily jobs.
- Boosted the performance of critical Databricks jobs from 45 minutes to under 8 minutes, significantly enhancing data availability, reducing costs, and improving operational efficiency.
- Played a key role in the development of an efficient Automation Testing framework for the application, leveraging Spring and Cucumber to encourage Behaviour-Driven Development and reduce testing time, leading to increased release cycles.
- Recognised as a UBS Certified Gold Engineer for technical excellence and consistent delivery.
- Core member of the UBS AI Ventures Challenge, mentoring graduates on AI and innovation against real-world business problem statements.

Web Intern

Kindness Unlimited – Mumbai, India

Dec 2019 – Dec 2020

- Managed and updated website content, redesigned layouts for events, and optimised performance with plugins and caching.
- Collaborated with the team on timely updates and technical issue resolution.

Deep Learning Intern

Bennett University – Greater Noida, India

Jun 2020 – Jul 2020

- Developed and trained an end-to-end deep learning model for activity recognition to detect suspicious behaviour in surveillance footage.

Research & Publications

Dias, M., Aloj, H., Ninan, N., Koshti, D., Kamoji, S.

First Aid and Emergency Assistance Robot for Individuals at Home using IoT and Deep Learning.

IEEE 7th International Conference on Computing Methodologies and Communication (ICCMC), 2023.

DOI: <https://doi.org/10.1109/ICCMC56507.2023.10083934>

Dias, M., Aloj, H., Ninan, N., Koshti, D.

BERT-based Multiple Parallel Co-attention Model for Visual Question Answering.

IEEE 6th International Conference on Intelligent Computing and Control Systems (ICICCS), 2022.

DOI: <https://doi.org/10.1109/ICICCS53718.2022.9788253>

Technical Skills

Programming: Python, Java

AI / ML: Generative AI, NLP, Agentic AI, Forecasting, Anomaly Detection, Retrieval-Augmented Generation (RAG)

Frameworks: LangChain, LangGraph, FastAPI, Spring Framework

Data & Cloud: Databricks, Apache Spark, Microsoft Azure, PostgreSQL

Tools: Kubernetes, Power BI, GitLab CI/CD, Docker, MLflow

Awards

Winner, UBS India Hackathon 2024 – UBS, 2024

Built a multi-agent RAG-based AI assistant providing application-specific user assistance and automated incident reporting.

Outstanding Performer Achievement – UBS, 2023

Top 6, AI for Healthcare Hackathon – DERBI Foundation, 2021

Theme: Deep Learning Multiple Diseases Prediction Model based on Retina Image

Certifications

Agentic AI – DeepLearning.AI, 2026

Azure AI Engineer Associate – Microsoft, 2026

UBS Certified Gold Engineer – UBS, 2025

Azure AI Fundamentals – Microsoft, 2024