

Morris Darren Babu



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 github.com/DARREN-2000

 <https://darren-2000.github.io/>

CAREER HIGHLIGHTS

Structured AI/Data Specialist skilled at transforming and automating data workflows. Proficient in AWS, Azure, and Docker for secure cloud-native DevOps. Expert in analytics, ML/DL, and interactive visualization for data-driven decisions. Experienced in GenAI, AI Agents and LLMops, including LLM evaluation, prompt engineering, RAG, and LoRA/QLoRA fine-tuning. Drives innovation through agile collaboration and Industry 4.0 frameworks.

PROFESSIONAL EXPERIENCE

10/2025 – 03/2026
Bonn, Germany

Deutsche Telekom, *MLOps Engineer Intern | LLM Infrastructure & Deployment*

- Built a microservices-based LLM benchmarking framework on vLLM using GuideLLM (latency, throughput) and DeepEval (LLM-as-judge), tracking experiment runs in ClearML to define SLOs for model selection and capacity planning.
- Scaled automated benchmarking via GitLab CI/CD and Kubernetes runners, executing containerized matrix jobs on Hugging Face datasets, publishing reports to Grafana.
- Secured enterprise MLflow deployments on Kubernetes, implementing Keycloak OIDC and OAuth sidecars for SSO, enforcing ingress, TLS, and RBAC to meet compliance.

05/2025 – 09/2025
Wolfsburg,
Germany

Volkswagen Group (CARIAD) , *Master Thesis | Integrating LLMs In Automotive Systems*

- Implemented AI-driven black-box fuzzing in Azure AI Foundry by benchmarking 16 LLM models, boosting code-flaw detection by 13%, strengthening ECU resilience, and reducing OEM cybersecurity threats.
- Automated test-case generation by containerizing LLM inference services in CI/CD/CT pipelines, cutting test creation time by 33% and increasing code coverage by 7%.
- Designed a secure Azure Private Link for an automated LLM fuzz-testing PoC, replacing manual tests, reducing delays by 10%, and improving automotive software quality.

10/2024 – 04/2025
Munich, Germany

BMW Group , *Data Scientist Intern | RAG & LLM Systems*

- Deployed a CRNN surface detection model on AWS SageMaker (EC2, S3) with semantic segmentation, tuning AI parameters and serving results via API to cut false positives.
- Architected a Django Web application for parsing geometric STL meshes and file ingestion, utilizing document chunking pipelines to achieve 8% faster processing.
- Engineered an LLM auto suggestion model utilizing RAG and vector search to identify part issues, via document chunking and data indexing to elevate precision by 12%.

10/2021 – 09/2022
Chennai, India

Crystal Consultancy Services , *Data Analyst*

- Monitored and analyzed key performance indicators (KPIs) using SAP R3 data, resulting in a 4% improvement through targeted data-driven decisions.
- Applied Azure Databricks to address slow data processing in the ETL pipeline, optimizing feature engineering and model deployment, enhancing speed by 25%.

02/2021 – 07/2021
Texas, USA
(Remote)

Altascio Technologies , *Data Engineering Intern*

- Utilized Excel techniques (Pivot, VBA, VLOOKUP, SUMIFS) to streamline manual aggregation of department spreadsheets, reducing report generation time by 2%.
- Streamlined data extraction and consolidation using SQL to resolve fragmented inventory data, saving 20 hrs/week and reducing inventory update time by 11%.

06/2020 – 12/2020
London, United Kingdom (Remote)

Jman Group [↗](#), *Python Developer Intern*

- Assisted in developing predictive models with ML algorithms using sensor data to identify clusters, detect outliers and trends, delivering 87% accuracy in field tests.
- Applied end-to-end data science (data collection, EDA, feature engineering, model selection, deployment) to solve ETL pipeline bottlenecks, raising throughput by 27%.

TECHNICAL SKILLS

Python (Scikit-learn)	R	C++	JavaScript	Computer Vision	TensorFlow, PyTorch	
GenAI (Prompting, RAG, GAN, VAEs, LangChain)	SQL	Snowflake	Power BI	MS Office		
Azure (Spark, Data Factory, Data Lake)	AWS (EC2, Aurora, CloudWatch)	Keycloak	n8n			
Git	GitHub Actions(CI/CD)	Docker	Kubernetes (Helm)	MLflow	ClearML	vLLM

SOFT SKILLS

Analytical / Strategic Thinking	Creative	Communication	Problem Solving	Teamwork
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EDUCATION

10/2022 – 03/2026

M.Sc. in Data Science, *Friedrich Alexander University Erlangen-Nuremberg* [↗](#)

Subjects [↗](#) : Pattern Recognition, Deep Learning, Generative Artificial Intelligence, Anomaly Detection, Decision Theory, Reinforcement Learning, Statistics, ML in Finance.

06/2018 – 06/2022

B.E. in Computer Science Engineering, *Rajalakshmi Institute of Technology, India* [↗](#)

PROJECTS

Material Prediction & Mesh Dataset Generation with GNNs (Graph Neural Networks) [↗](#)

Constructed a custom GNN framework and synthetic dataset of shape/material data, predicting wear with RMSE under 0.1 and supporting end-to-end shape generation and graph visualization.

Research Project in Open-Source Software for Advanced Data Engineering Techniques [↗](#), *OSS Group*

Forecasted Germany's GDP from 1970 to 2022 in a 6 month open source project by refining time series data, analyzing inflation to GDP correlation and evaluating models via RMSE and MAE metrics. [↗](#)

OCR with Handwritten Recognition and Auto Spelling Correction [↗](#), *Bachelor Thesis*

Implemented an NLP-driven spelling correction system using tokenization, language modeling, and Tesseract OCR, exposing it via a scalable REST API and reducing Character Error Rate by 89% on multilingual documents.

Movie Recommendation System using Hybrid Filtering [↗](#), *Publication*

Created a hybrid recommendation system using collaborative and content filtering with clustering, achieving a 92% Top-K Hit Rate and integrating it into a Flask-based web app for real-time user recommendations.

CERTIFICATIONS

Predictive Data Analytics for Business Intelligence Nanodegree [↗](#) Excel to MySQL: Regression [↗](#) Statistics [↗](#)

DL AI TensorFlow Developer [↗](#) Google Cloud Platform IT Automation [↗](#) Data Warehousing, Big Data on GCP [↗](#)

LANGUAGES

English: C1 (Business fluent) | **German:** A2 erworben, B1 laufend [↗](#) | **French:** A1 | **Tamil (Native)**