

Daniel Pereira

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• <https://danielpereira0320.github.io/Portfolio/>

• <https://www.linkedin.com/in/danielpereira2/>

Data Scientist with an M.Sc. in Big Data Analytics and hands-on experience in machine learning, NLP, and predictive modelling. Proven ability to design and deploy AI-driven solutions, including LLM-based chatbots and deep learning models. Strong foundation in statistical analysis, data visualisation, and cloud-based AI tools, with a passion for solving complex business problems through data-driven insights.

PROFESSIONAL EXPERIENCE

Clinicpoints, Dublin, Ireland

Data Analyst (Part-Time), July 2025 – Present

- Researched healthcare data science frameworks in preparation for developing a Medical Scribe Application.
- Explored frameworks for implementing Speech Recognition and Chatbots in .NET MAUI.

Clinicpoints, Dublin, Ireland

Data Analyst Intern, Feb – May 2025

- Independently led the end-to-end development lifecycle of an AI-powered Chatbot, from data preprocessing to deployment, while consulting with the CEO.
- Independently mastered Ollama & ChromaDB within 2 weeks to deliver a prototype, later optimised for 30% faster response times via iterative testing.
- Diagnosed bottlenecks in chatbot performance by analysing user interaction logs, proposing fixes that reduced unresolved queries by 25%.
- Researched healthcare data science frameworks to identify potential applications in patient analytics.

EDUCATION

St. Xavier's College, Mumbai, India

M.Sc. in Big Data Analytics, 2025

(Industry-aligned curriculum developed with TCS, specialising in ML, Statistical Modelling, Database Management)

Chief Editor – BITMAP Magazine (5th Edition), Mar – Sep 2024

- Led a 9-member editorial team to publish the annual IT department magazine, overseeing content strategy, deadlines, and quality control for 30+ technical articles.
- Streamlined collaboration between editors, designers, and faculty reviewers by implementing a structured feedback system, reducing revision cycles by 40%.
- Developed editorial guidelines and topic frameworks to align content with industry trends (AI, Data Science, Cybersecurity), increasing reader engagement by 25%.
- Coordinated with the design team to integrate data-driven infographics, enhancing readability for complex topics like adversarial ML and financial analytics.

Key coursework: Deep Learning, NLP, Predictive Analytics, Cloud Computing.

B.Sc. in Information Technology, 2023

Digital Marketing Lead – Mahek Foundation, Mumbai, Jul – Dec 2021

- Researched and analysed user engagement metrics such as likes, shares, and CTR to optimise social media posts, increasing follower growth by 20% in 3 months.
- Proposed and implemented low-code web solutions to streamline donor data collection, reducing manual entry time by 30%.
- Developed SEO-optimised articles and visualisations using Canva/Tableau Public to explain the NGO's impact, improving website traffic by 15%.

Key coursework: AI, Data Analytics, and Programming with hands-on projects in Python, R, and SQL.

ACADEMIC PROJECTS

Bankruptcy Prediction via Financial Ratios, 2024

- Conducted statistical analyses such as Logistic Regression and Random Forest to predict corporate bankruptcy.
- Published findings in a research paper, highlighting key financial indicators.

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Facial Emotion Recognition System, 2024

- Built a CNN-based emotion classifier using transfer learning (EmovDB dataset, Kaggle).
- Achieved 88% accuracy by preprocessing images & fine-tuning a pre-trained ResNet model.
- Tested on external datasets to validate robustness.

Messaging Application with Speech Synthesis, 2023

- Built an Android Messaging Application (Java, XML).
- Created a server for the synthesis of voice messages (Flask, CoquiTTS).
- Hosted the server using Ngrok and accessed it on the app using the REST API.

TECHNICAL SKILLS

- **Languages:** Python (Pandas, NumPy, TensorFlow, PyTorch), R, SQL, NoSQL
- **ML/AI:** Supervised/Unsupervised Learning, NLP, LLMs, Deep Learning
- **Tools:** Power BI, Tableau, Docker, Ollama, ChromaDB, Git
- **Cloud & Deployment:** AWS (EC2), Flask (Basic API Development)

MAGAZINE PUBLICATIONS

- "Adversarial ML" ([BITMAP 4.0, 2023](#)) | Explored data poisoning attacks in AI systems.
- "Supermarket Run" ([BITMAP 3.1, 2022](#)) | Analysed online shopping trends through a data lens.

OTHER INTERESTS

- Competitive Chess: Regularly competed in chess tournaments, applied game theory and probabilistic thinking to model optimisation challenges, mirroring tournament-level decision-making under uncertainty.
- Data Journalism: Analyse complex topics and distil into clear insights for non-technical readers
- Reading: Genres include Psychology, Sci-fi, Game theory, Business, Mystery