

Nikunj Prajapati

Data Analytics · MSc Data Analytics (London Metropolitan University)

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PROFILE

MSc Data Analytics (London Metropolitan University, July 2026) moving from mathematics and education into clinical and behavioural analytics. Dissertation work on leakage-audited heart-failure outcome prediction (2,008 patients, 143 predictors) plus a patient-grouped MIMIC-IV retrain showing GCS components add +0.0138 AUROC at 28 days, and an 845-trial behavioural card-sorting analysis with an interactive viewer. Day-to-day experience in care-record compliance, log validation and audit readiness. Available now for graduate data-analytics roles in London.

EDUCATION

MSc Data Analytics (completed July 2026)

Sep 2025 – Jul 2026

London Metropolitan University

- Dissertation: HF-RISK — predicting heart-failure outcomes with machine learning, with a full leakage audit and a patient-grouped MIMIC-IV extension.
- Modules: statistical modelling, predictive analytics, data visualisation, databases.

B.Sc. Mathematics

Jun 2021

Gujarat University

Bachelor of Education

Apr 2023

Gujarat University

EXPERIENCE

Customer Service Manager

Apr 2026 – present

Ladbroke's / Entain, Harrow

- Lead the service floor: shift rota, complaint resolution and coaching to brand service standards.
- Escalation point for complex customer cases; weekly performance reporting to management.

AI Response Evaluator

Nov 2025 – May 2026

TMX China

- Scored and calibrated AI-generated responses against rubric quality bars at volume.
- Systematised recurring failure patterns and fed them back to the model team.

Card-Sorting Analysis Intern (under Dr. Subeksha Shrestha, Module Leader)

Oct 2025 – present

London Metropolitan University

- Cleaned and analysed 845 recorded trials of spatial card sorting (714 usable after validation).
- Built an interactive analysis viewer: nine views including retry tracing, progression and recovery.

Administration

May 2025 – Apr 2026

PHC Home Care

- Care records: accurate, timely, audit-ready documentation across daily logs.
- Log validation, incident tracking and audit readiness; evidence packs for inspections.
- Built the website for a secondary company (chi ezahomecare.co.uk).

Community Volunteer

Aug 2025

Metropolitan Police

- Safer Neighbourhoods volunteering: community engagement and local safety outreach in London.

SELECTED PROJECTS

HF-RISK — Predicting Heart Failure Outcomes with Machine Learning

Feb – Mar 2025

MSc Dissertation + 2026 extension

- 2,008 Zhang/PhysioNet heart-failure records; 143 final predictors after a full leakage audit.
- Five models, four horizons: Random Forest 0.781 (28-day) and 0.839 (3-month); XGBoost 0.710 (6-month mortality) and 0.650 (6-month readmission).
- Leakage audit cut the headline 6-month AUROC from 0.819 to 0.710 by removing discharge-day and outcome-proxy features.
- Direct transfer to MIMIC-IV (42,990 admissions): 0.599 at six months — a transportability check, not a clinical claim.
- 2026 extension: patient-grouped retrain inside MIMIC-IV (18,890 patients) — GCS components add +0.0138 AUROC at 28 days and +0.0086 at six months, and still +0.0104 on top of an independent ICU-stay control.
- GCS left missing where it was never charted (72% of admissions) rather than imputed as a normal score; SHAP maps a cardiorenal axis.

Interactive Card Sorting — Spatial Organization & Cognitive Strategy

Oct 2025 – present

Behavioural Analysis

- 845 recorded trials (714 usable) of arranging KQJ blank cards on an 8×8 board.
- Finding: organisation beats raw effort; blank cards act as scaffolding; recovery is uncommon but informative.
- Vanilla JavaScript + Plotly interactive viewer with nine analysis modes and a trial picker.

SKILLS

Languages & libraries

Python (pandas, NumPy, scikit-learn, SHAP, Plotly, Streamlit, lifelines) · R (survival, ggplot2, dplyr) · SQL · JavaScript

Methods & tools

Statistical modelling · Predictive analytics · Data cleaning · Feature engineering · Data visualisation · Power BI · Behavioural analysis · Compliance-aware data handling

INTERESTS

Ancient history (especially Egypt) · Fitness & running · Self-development · Continuous learning