

Hem Gandhi

(Data Scientist | ML Applications & Analytics)

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Work Authorizations: Full Australian work rights until March 2028 (Subclass 485)

PROFESSIONAL SUMMARY

Graduate data scientist (ex-NielsenIQ, 1.3 yrs) specialising in building end-to-end data and AI applications – from recall-first churn models and geospatial visualisation to an ATS Resume Analyzer that combines classic ML, semantic similarity and LLM suggestions. Strong hands-on Python and SQL with production-minded engineering: APIs (FastAPI), geospatial stacks (PostgreSQL/PostGIS, Leaflet), Streamlit UIs, packaging and Docker. Experience spans financial forecasting/variance analysis, ATS optimisation and asset/geo data quality, with a bias towards validation, clear documentation and stakeholder-friendly communication. Actively developing as an AI Generalist/Engineer with growing depth in LLM orchestration, prompt design, vector similarity and practical MLOps habits (dependency management, containerisation, environment flags).

TECHNICAL SKILLS

Technical Stack: Python, SQL, PostgreSQL, MongoDB, scikit-learn, XGBoost, PyTorch, sentence-transformers, LiteLLM, Docker, Git, AWS, Azure, FastAPI, Streamlit, Tableau

Core Competencies: Machine learning (classification, regression, NLP), predictive modelling and evaluation (precision, recall, AUC, threshold tuning), data pipeline design and ETL automation, geospatial analytics (PostGIS, spatial joins), LLM applications and prompt engineering, MLOps and deployment (containerisation, packaging), data quality assurance and validation, stakeholder communication and technical storytelling

EXPERIENCE

NielsenIQ — Research Associate | Vadodara; Gujarat; India Sep 2021 — Dec 2022

- Automated weekly client reporting for FMCG portfolios (Budweiser; L'Oréal; Dr. Oetker); lifting **on-time delivery to >98%** with **>95% accuracy**.
- Wrote SQL extracts and data checks that **reduced manual fixes ~30%** and cut the weekly cycle time.
- Produced EDA templates and variance diagnostics, cutting analysis turnaround ~25%.
- Built macro-enabled Excel templates that **standardised KPIs** across accounts and reduced rework for the team.
- Partnered with account leads to translate trends into actions (price/promo mix); **improving meeting prep and decision speed**.
- Produced clean documentation and handover notes; improving **maintainability** across rotations.

The Maharaja Sayajirao University of Baroda; Internal Quality Assurance Cell (IQAC) — Junior Analyst (Internship) | Vadodara; Gujarat; India Apr 2019 — Jul 2019

- Analysed feedback from **~36,000 students** covering campus facilities; teaching quality and infrastructure.
 - Built **faculty-wise** and **department-wise** summaries to support NAAC accreditation (5-year ratings) and annual planning.
 - Consolidated data checks and visual summaries to improve clarity for the IQAC committee and department heads.
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SELECTED PROJECTS

[ATS Resume Analyzer — JD Fit Copilot](#) Nov 2025

- Built an end-to-end **ATS Resume Analyzer** that ingests **PDF/DOCX/TXT** resumes and job descriptions, extracts **structured skills** (tools, methods, competencies, domain) and computes simple and advanced **ATS-style scores** using **TF-**

IDF similarity and weighted keyword coverage.

- Designed **modular parsing, scoring and evidence-ranking components** (parse, scoring, evidence modules) so the core logic can be reused in other apps/APIs; added offline heuristics plus configurable “**strict/lenient**” **scoring profiles**.
- Integrated an optional **semantic layer** (**sentence-transformers** + cosine similarity) to rank the strongest experience bullets against JD requirements and an **LLM backend (via LiteLLM)** to generate multi-dimensional fit explanations and rewrite suggestions, with **deterministic fallbacks** when keys or heavy deps are unavailable.
- Packaged and deployed as a **production-style Python app** with a **Streamlit UI**, `src/ layout`, **pyproject.toml + uv** dependency groups (base vs semantic), and a lightweight **Docker image** suitable for local and cloud demos.
- **Tools & skills:** **Python**, pandas, scikit-learn, rapidfuzz, **Streamlit**, PyMuPDF, python-docx, Tesseract OCR, **sentence-transformers**, PyTorch (CPU), **LiteLLM**, **Docker**, Git; text parsing, ATS-style scoring, semantic similarity, LLM orchestration, packaging and deployment.

[BCG X — PowerCo Churn Analysis \(Forage\)](#)

Sept 2025

- Designed a recall-first pipeline: stratified **75/25** split; **SMOTE** on training; tree-based models; selected **XGBoost** with **threshold tuning** to align with business cost of false negatives.
- Test results: **recall ≈0.48** at threshold **0.5**; **≈0.97** at threshold **0.3** (expected precision trade-off) to prioritise **top-risk deciles**.
- Produced clear evaluation metrics and a simple plan for outreach + uplift measurement.
- Tools & skills: Python; pandas; scikit-learn/**XGBoost**; imbalanced-learn (SMOTE); Jupyter; EDA; feature engineering; threshold tuning.

[Citi FP&A — Virtual Experience \(Forage\)](#)

Sept 2025

- Built executive-style packs covering **KPI/variance analysis**; **Basel III** checks (RWA/CAR); and scenario-based **forecasting** under shock conditions.
- Reconciled 2020–2022 trends; clarified drivers; and framed base/upside/downside outlooks with clear assumptions and actions.
- Reviewed **EWT/MAT** limit signals; summarising breaches; impacts and remediation for leadership.
- Tools & skills: Excel; PowerPoint; financial analysis; scenario/sensitivity modelling; risk indicator monitoring; concise stakeholder communication.

Polimap — Dynamic Geographic Data Visualisation (NDA)

Aug 2024 — Nov 2024

- **Built ETL pipelines (Python/SQL)** and spatial models in PostGIS; exposed read-optimised FastAPI endpoints for a Leaflet front end (heatmaps; clustering).
- Enabled responsive exploration of hundreds of thousands of rows; **heatmaps ≈ 3 s for ~10k points; permission checks ≤ 50 ms.**
- Implemented dataset-to-region RBAC, QA checks and concise runbooks; containerised services with Docker for repeatable delivery.
- Result: awarded High Distinction. (*Work delivered under NDA.*)
- Tools & skills: Python, SQL, PostgreSQL/PostGIS, FastAPI, Leaflet.js, Docker, Git; ETL & data modelling, spatial joins, REST API design, performance optimisation, RBAC/access control, QA, documentation.

ADDITIONAL EXPERIENCE

Amazon — Warehouse Associate | Melbourne; VIC

Jun 2023 — Present

- Consistently **achieved daily KPIs** (throughput; accuracy) with **zero safety incidents**; demonstrating reliability under tight SLAs.
 - Built lightweight QA routines and shift reports, reducing cycle time ~20% and clarifying anomalies for leads. Monitored operational KPIs and escalated risks with concise, data-first narratives.
 - Used scanners/WMS and standard work to minimise errors; supported process tidy-ups that reduced rework during peak periods.
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EDUCATION

Performance Education — Professional Year in IT | Melbourne; VIC | Jun 2025 — Present

- Industry readiness: workplace communication; job search strategy; and Australian professional standards.

Swinburne University of Technology — Master of Data Science (Analytics) | Melbourne; VIC | Feb 2023 — Dec 2024

- Key subjects: Machine Learning; Statistical Modelling; Data Management; Cloud/APIs.
- Achievements: High Distinction for geo-analytics capstone (NDA).

The Maharaja Sayajirao University of Baroda — B.Sc. in Statistics | Vadodara; India | 2018 — 2021

- Core areas: Probability; Inference; Regression; Time Series; Survey Methods.
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REFERENCES

Referees available on request.