Bikram Bhattarai

Data Engineer

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Australian Permanent Resident with full working rights. No visa sponsorship required.

PROFESSIONAL SUMMARY

Data engineer with over two years of SQL and reporting experience as a customer insights analyst, completing a Master of Data Science at Swinburne University of Technology (expected 2027). Builds reproducible data workflows in SQL and Python: cleaning and standardising source data, designing train and test splits that cannot leak, writing test-first calculation code, and reconciling reported figures back to their queries. Brings a reporting background that keeps the people downstream of a pipeline in view. Seeking graduate and junior data engineering roles in Melbourne, and open to data analyst roles.

KEY SKILLS

- **Data engineering:** cleaning and standardisation pipelines in Python and pandas, combining sources, train, validation and test split design, data validation and reconciliation
- **SQL and databases:** MS SQL Server, PostgreSQL, MySQL, joins, CTEs, window functions, data modelling for reporting
- **Programming and testing:** Python (pandas, NumPy, scikit-learn), pytest, R
- **Engineering tools:** Git and GitHub, GitHub Actions, Docker, Jupyter, Django REST, Streamlit
- **Analytics and BI:** Tableau, Power BI, Looker Studio, Excel, A/B testing, cohort and retention analysis, KPI reporting
- **Ways of working:** Agile sprint planning in JIRA, requirements gathering, stakeholder reporting, documentation

PROFESSIONAL EXPERIENCE

Customer Insights Analyst

KeyGap Software Solutions, Bangalore, India | 2021 to 2023

- Wrote SQL queries to report weekly active users, retention and conversion metrics, and maintained the Tableau dashboards used in fortnightly review meetings.
- Built a recurring KPI report covering acquisition, activation, retention and revenue, replacing a spreadsheet that had been updated manually.
- Produced customer behaviour and campaign performance reporting for product and marketing managers across two software as a service clients.
- Supported A/B test reporting for landing pages and email campaigns, and analysed NPS survey results for the team lead.
- Worked with developers and product owners during sprint planning in JIRA, and prepared the insights summaries used in client reviews.

Product Back Office Executive

PowerWeave Software Solutions, Mumbai, India | 2018 to 2020

- Managed product listings and catalogue updates for a United States based wholesale platform, working with large product datasets in Microsoft Excel.
- Improved recurring data entry steps to reduce errors and turnaround time on catalogue updates.
- Processed orders, coordinated shipping and prepared quotations for trade partners.
- Acted as a regular point of contact for trade partners on the account.

PROJECTS

Domain Adaptive Sentiment Analysis | Swinburne University, six person team, data engineer | 2026

- Built the single cleaning and splitting pipeline for 43,404 Reddit comments (GoEmotions) and 4,846 financial news sentences (Financial PhraseBank), so every modelling notebook loaded the same files.
- Fixed a seeded, stratified 70/15/15 split so every model was scored on the same 727 unseen test sentences.
- Rebuilt the combined training file after a 98.9% score exposed test sentences leaking into it; the corrected model scored 84.7%, in line with the others.
- **Tools:** Python, pandas, Hugging Face.

OSHC When It Matters | Swinburne University (COS70008) with Medibank, team of three | 2026

- Built the bill explainer's extraction, the benefit and MBS arithmetic, the question classifier and the evaluation code for a guarded learning prototype on international students' health cover.
- Wrote the arithmetic tests before the code, and designed the evaluation so nobody builds against the held-out set they are scored on.
- One of five teams selected for the face-to-face final with Medibank.
- **Tools:** Python, Streamlit, pytest, Claude Haiku (Anthropic API).

Vehicle Weight and Driver Injury in Two-Car Crashes | Swinburne University, team of two | 2026

- Built the matched-pair analysis dataset from 57,217 Victorian two-car crashes (2012 to September 2024) and fitted conditional logistic regression models in R.
- Tested the planned per-100 kg model before trusting it and replaced it with a weight-ratio model: each 10% of extra weight went with about 20% lower odds of the driver being killed or seriously injured.
- **Tools:** R, survival, dplyr, ggplot2.

Bank Loan Portfolio Dashboard | Personal project

- Modelled a bank loan dataset in MS SQL Server and calculated KPIs including total applications, funded amount, average interest rate and month on month movement using CTEs and window functions.
- Built three linked Tableau dashboards and validated every reported figure against the SQL results.
- **Tools:** MS SQL Server, Tableau.

Australian Beach and Water Locations | Swinburne University (COS60008)

- Combined and cleaned Australian open datasets on beach amenities and regional climate, and documented the workflow in a reproducible Jupyter notebook with a data dictionary.
- **Tools:** Python, pandas, Jupyter.

EDUCATION

Master of Data Science

Swinburne University of Technology, Melbourne, Australia | 2025 to 2027 (expected)

- Database systems, big data processing, machine learning and predictive analytics.

Master of Business Administration, Marketing and Business Analytics

GIBS Business School, Bangalore City University, India | 2020 to 2022

Bachelor of Commerce, Marketing

Tilak Maharashtra Vidyapeeth, Pune, India | 2017 to 2020

CERTIFICATIONS

- Data Visualisation with Tableau Specialisation, University of California, Davis (Coursera)

REFEREES

Available on request.