

## **KABITA ADHIKARI**

Greenway, ACT 2900

M: 0451 155 313 | E: [kkabitaadhikari@gmail.com](mailto:kkabitaadhikari@gmail.com)

LinkedIn: <https://www.linkedin.com/in/kabita-adhikari>

Portfolio: <https://kabitaadhikari.github.io/>

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### **Career Objective**

Data Science graduate based in Canberra with hands-on experience in data analysis, workflow automation and Power BI reporting. Proficient in Python, SQL, R and reproducible analytics workflows. I'm passionate about using data to improve services and support evidence-based decisions, and I'm seeking an opportunity where I can contribute meaningful work for the Canberra community while growing as a data professional.

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### **Key Skills**

- Power BI: Interactive dashboards, data modelling, DAX, scheduled refreshes
  - Data Analysis & Preparation: Data wrangling, cleaning and EDA using Python (Pandas, NumPy), R (tidyverse) and SQL
  - Reporting & Visualisation: Power BI, Excel dashboards, Matplotlib, Seaborn
  - Workflow Automation & Tools: Power Automate, Zapier, HubSpot CRM, Excel (pivot tables, VLOOKUP)
  - Machine Learning & Statistics: Logistic Regression, Decision Trees, Random Forest, SVM, K-Means, PCA
  - Professional Skills: Stakeholder collaboration, written report writing, presentations, cross-functional teamwork, problem-solving and analytical thinking
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### **Education**

- **Master of Data Science**

University of Canberra

Key subjects: Python Programming, R Programming, Data Visualisation, Advanced Analytics, Image Processing (MATLAB), Regression, Machine Learning

- **Master of Information Technology(Software Design & Development)**

Charles Sturt University, Sydney

Key subjects: Android App Development, Databases, Programming Principles (Python), Interface Usability

- **Bachelor of Public Health**

Pokhara University, Nepal

Key skills: Research, report writing, data collection, analysis

## Employment History

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### **Research Assistant (Intern) – Jansz Group, Canberra**

**Jul 2020 – Dec 2020**

- Conducted data analysis and created visual dashboards using Power BI and Excel.
  - Researched new Microsoft 365 and Power Platform features and documented key updates.
  - Presented analytical insights and updates to team members to support informed decisions.
  - Built workflow automations using Power Automate and Zapier.
  - Supported marketing and data collection campaigns using GrowthLead and LinkedIn Navigator.
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### **Customer Service Representative – Sukavya Decor & Hire, Canberra**

**Mar 2022 – Present**

- Managed customer enquiries via phone/email and provided clear service information.
  - Coordinated bookings, maintained customer databases and ensured accurate recordkeeping.
  - Handled customer complaints professionally and resolved issues promptly.
  - Collaborated with team members to ensure smooth daily operations.
  - Processed payments and maintained invoice/payment logs.
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### **Care Service Employee – Uniting Care (Aged Care), Canberra**

**Nov 2016 – Present**

- Developed strong communication and problem-solving skills through client support.
  - Completed detailed end-of-shift reports and maintained accurate documentation.
  - Worked as part of multidisciplinary teams to implement and evaluate care plans.
  - Supported residents with dementia using behaviour management strategies.
  - Delivered activities to promote emotional and cognitive wellbeing.
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## Selected University Projects

### **Capstone Project (Major Project)**

#### **TIHM Dementia Care Anomaly Detection – Data Science Pipeline Project**

- Developed an end-to-end machine learning pipeline to detect anomalies in behaviour of dementia patients using wearable sensor data.
- Cleaned, merged and analysed multiple datasets including activity, physiology, sleep and demographics.

- Engineered features for heart rate, respiratory rate, sleep quality and agitation events.
  - Built and compared ML models (Logistic Regression, Random Forest, Gradient Boosting).
  - Achieved strong performance (Gradient Boosting ~0.92 accuracy, improved recall for abnormal events).
  - Presented insights to supervisors with actionable recommendations for early-warning detection.
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### **Machine Learning Pipeline for Predicting Flight Delays**

- Processed 7M+ flight records from the US Bureau of Transportation Statistics (2014–2018) across 60 monthly ZIP files.
- Automated extraction, cleaning and merging of all CSV files into a combined dataset of 1.6M filtered records (top 5 airlines & top 9 busiest airports).
- Conducted detailed EDA to identify trends in delayed vs non-delayed flights, including patterns by month, time of day, airline, airport and distance.
- Built interactive Tableau dashboards to visualise flight delay trends, airline performance, destination patterns, delay severity and airport traffic distribution.
- Performed feature engineering including one-hot encoding, departure-hour extraction, distance grouping, creation of delay flags, and management of data imbalance.
- Developed ML models such as Logistic Regression with class-balancing, achieving strong performance for predicting flights delayed >15 minutes.
- Evaluated models using confusion matrix, ROC curve, precision, recall, sensitivity, specificity and F1-score.
- Documented the full pipeline with screenshots, workflow diagrams and model outputs as part of the Data Science Pipeline major assignment.

### **Fashion MNIST Image Classification (Python, scikit-learn)**

- Built a logistic regression model to classify 70,000 images into 10 categories.
- Performed EDA, preprocessing and visualisation.
- Achieved ~84% accuracy and analysed misclassifications for improvement.

### **Nearest Neighbour Classifier & K-Means Clustering (Python)**

- Implemented a Nearest Neighbour Classifier to label unknown samples.
  - Applied K-Means to group samples and identify patterns in unlabeled data.
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### **Additional Information**

- Permanent Resident of Australia
- Available to commence immediately
- Referees available on request