

AYUSH BAJGAI

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PROFILE

Data-driven problem solver currently pursuing a Master's in Data Science, with 2+ years of practical experience in data analysis, reporting, and process optimization across administrative and IT environments. Skilled in statistical modeling, machine learning, and translating complex datasets into actionable insights. Successfully built and deployed data-driven systems—from predictive models to interactive dashboards—to enhance decision-making and operational efficiency. Passionate about using data to solve real-world problems and support business growth.

EDUCATION

- ❖ Master of Data Science
University of Canberra | Feb 2024 - Present
- ❖ BSc. Hons Computing
Leeds Beckett University | Feb 2018- Nov 2022

WORK EXPERIENCE

Retail Supervisor | *Three Mills Bakery, Australia | Jun 2024 – Present*

- Supervised daily front-of-house operations, ensuring smooth workflow and excellent customer service.
- Handled point-of-sale (POS) transactions, inventory checks, and restocking to ensure availability of products.
- Collaborated with the bakery and management team to meet sales goals, improve product displays, and streamline service.
- Worked with marketing team on campaigns and events, providing product photography to boost brand sales.
- Skill Stack: POS System, Slack, Leadership, Shift Management, Inventory & Shift Management, Social Media Marketing*

Operations and Administration Officer | *Landmark Manpower Solution Pvt. Ltd., Nepal | Jan 2022 – Jan 2024*

- Utilized Excel and internal databases to generate weekly performance reports and insights.
- Conducted interviews and managed scheduling for 400+ clients and candidates, improving operational efficiency and data tracking.
- Maintained and cleaned large datasets related to recruitment, visa processing, and client communications to ensure data accuracy and compliance.
- Collaborated with international clients to ensure accurate data exchange and documentation tracking across projects.
- Skill Stack: Microsoft Excel, Google sheets, SQL, Microsoft Access, Stakeholder Reporting, Project Scheduling and Planning*

Tech Support Specialist | *Landmark Manpower Solution Pvt. Ltd., Nepal | Aug 2020 – Jan 2022*

- Provided first-line technical support for internal systems, resolving hardware, software, and connectivity issues across the company.
- Installed, configured, and troubleshooted office equipment, including printers, scanners, and workstations, improving operational uptime.
- Acted as liaison between non-technical staff and IT providers, ensuring clear communication and timely resolution of technical issues.
- Supported data backup, email configuration, and system access permissions, maintaining a secure and efficient work environment.
- Skill Stack: MS Office Suite, User Access Management, Team Coordination, Problem Solving, Technical Documentation*

PROJECTS

Predicting Resale Value of Used Smartphones Using Machine Learning

- Built machine learning models (Linear Regression, Decision Tree, SVM, Logistic Regression) for smartphone resale price prediction using Kaggle dataset.
- Performed data preprocessing, including handling missing values, label encoding, and feature scaling for optimal model performance.
- Achieved 87% classification accuracy and 0.86 R² regression score through feature engineering, label encoding, and hyperparameter tuning.
- Skill Stack: Scikit-learn, Model Evaluation, Data Visualization, Feature Engineering, Machine Learning*

Australian Housing Affordability Dashboard (using Shiny app)

- Developed an interactive Shiny dashboard to visualize housing affordability trends across Australian states using ABS data (2011–2024).
- Implemented dynamic visualizations such as time series plots, bar graphs, and heatmaps to compare mean dwelling prices, CPI, and income levels by state.
- Performed extensive data wrangling to clean, filter, merge, and reshape housing datasets for accurate visualization and analysis.
- Skill Stack: R Programming, Data Wrangling, Shiny app, Time Series Analysis, ggplot2, Data Storytelling*

Real-time Drowsiness Detection and Heart Rate Monitoring System

- Developed a real-time drowsiness detection system using Eye Aspect Ratio (EAR) from facial landmarks via webcam input to monitor driver alertness.
- Implemented real-time eye state classification using EAR thresholds and a rolling frame buffer to calculate eye open/closed accuracy, minimizing false positives.
- Simulated heart rate monitoring logic to detect abnormal vitals (e.g., <60 or >100 bpm), with live updates integrated via Firebase Realtime Database.
- *Skill Stack: Python, OpenCV, Firebase, Computer Vision, Real-time Monitoring, Facial Landmark Detection, GUI Development*

E-commerce website – queenpashmina.com

- Developed an e-commerce platform for selling luxury pashmina products, optimizing layout, navigation, and mobile responsiveness.
 - Integrated secure online payment gateways for seamless transactions and managed product uploads, descriptions, and category filters.
 - Customized product pages, shopping cart, and checkout flows using WooCommerce, and optimized on-page SEO using Rank Math to enhance user experience, search visibility, and conversion rates.
 - *Skill Stack: Wordpress, WooCommerce, Front-end Development, SEO Optimization, Payment Integration*
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SKILLS

- **Programming Languages:** Python, R, Java
 - **Data Analytics:** Excel, PowerBI, NumPy, Scikit-Learn, Matplotlib, Jupyternote book, Tableau, Rattle, Matplotlib
 - **Machine Learning:** Linear Regression, Decision Trees, Random Forests, K-Means Clustering, NLP
 - **Web Development:** HTML, CSS, JavaScript, PHP, MySQL, Oracle, Github
 - **Design:** Adobe Photoshop, Illustrator, Lightroom, Canva
 - **Research:** Critical Thinking, Deep Analysis, Report Writing
 - **Other Skills:** Communication, Leadership, Detail Oriented, Problem Solving, Time Management. Adaptable
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HOBBIES & INTERESTS

- **Outdoor:** Enjoy trekking and exploring
- **Sports:** Passionate about soccer – love watching and playing
- **Creative:** Interested in photography
- **Fitness:** Go for runs and gym workouts to stay active
- **Leisure:** Enjoy playing video games and exploring game design