

Rusan Vaidya

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Data Analyst with 5 years of experience building cloud-based data and technical solutions, driven by a passion for continuous learning, innovation, and development. Currently working as a Data Analyst in Australia, focusing on developing ETL pipelines, automating workflows, and optimising data lake and warehouse architectures for enhanced performance and efficiency. Successfully built a centralised data foundation by consolidating raw user data across financial institutions, improving the timeliness of client facing analytics. Also enhanced dashboard responsiveness and user experience, leading to more effective stakeholder reporting.

TECHNICAL SKILLS

Programming Language: Python, Java, C++, R, JavaScript (React)

Cloud Platform: AWS (S3, Glue, Redshift, Quicksight), Snowflake, Microsoft Azure

Database Platform: RDBMS (MySQL, PostgreSQL, Oracle), NoSQL (MongoDB)

Backend: Django, Flask, FastAPI.

AI services: Open AI, Hugging Face

Machine Learning: Scikit-Learn, TensorFlow, Pytorch, XGBoost, LightGBM, OpenCV.

Others: Git, Github, Bitbucket, Docker, Power BI, Tableau, JIRA, Confluence, MS Office.

PROFESSIONAL EXPERIENCE

Transformd Pty Ltd, Sydney

Data Analyst

Jul 2024 – Present

- No-code SaaS Platform Provider – Drove data management, business insights, and product improvement for a cloud-based digital form solution that processes various types of information for financial institutions.
 - Led the development of automated data pipelines and modernised analytics infrastructure, streamlining reporting and enabling faster, insight driven decisions for internal teams and financial clients.
 - Engineered analytics platform by building a unified data lake on AWS S3 and a Redshift data warehouse, automating data ingestion from AWS Connectors and MongoDB Atlas with custom Python scripts to replace manual queries and enable real-time, advanced insights.
 - Moved reporting from Metabase to AWS Athena, speeding up data queries by 3 times and making it easier for teams to get insights switching dashboards to AWS QuickSight to provide interactive reports that helped teams explore data and make decisions.
 - Documented data models, pipeline steps, and data flow in Confluence to improve issue resolution, enhance cross team collaboration, and ensure continuity in development and maintenance workflows.
 - Conducted analysis of digital form interactions and financial submissions to identify user behaviour patterns, optimise user experience, and generate business insights
 - Conducted in-depth analysis of form submissions to uncover user friction points such as drop-off sections, time taken to complete forms, user start and end behavior, field level difficulties, device or browser usage, peak activity hours, and form abandonment trends enabling product and UX teams to optimise user experience and form design.
 - Performed client facing analysis on loan application submissions, examining applicant eligibility, income and loan ratios, demographic segmentation, property ownership status, and loan type/purpose trends to uncover behavioural patterns, risk indicators, and market opportunities for financial institutions.
 - Conducted detailed enquiry analysis on bank form submissions, aggregating data across demographics to uncover trends in product interest, identify high demand services, and guide targeted marketing and service optimisation strategies.

- Digital solutions for credit decisioning - Served as a liaison between business teams and technical developers, translating business needs into actionable solutions while ensuring platform quality and creating guides for effective tool usage.
 - Contributed to product management efforts by acting as a bridge between business requirements and platform development through stakeholder collaboration, requirement analysis, and documentation.
 - Led business analysis across the platform lifecycle by gathering requirements, defining user stories, and conducting testing at the staging level to identify functional bugs and usability issues; documented findings in Jira and collaborated with developers for timely resolution and feature alignment.
 - Conducted production releases by validating deployments, monitoring post-release behavior, and ensuring smooth transitions from staging to live environments with minimal user disruption.
 - Created detailed Confluence documentation outlining platform architecture, configuration steps, and custom feature implementation to support efficient knowledge transfer and long-term maintainability.

LIS Nepal, Kathmandu

Data Engineer

Aug 2022 – Jan 2023

- Comprehensive retail chain supermarket - Empowered business teams gain quicker access to dependable insights by streamlining report generation, enhancing data accuracy, and developing user-friendly dashboards.
 - Launched the organisation's first data-driven initiative by building a unified Snowflake-based platform, ingesting raw data from CSV and Excel files, and developing automated ETL pipelines for cleaning, transforming, and structuring data for analytics use.
 - Set up core data quality frameworks and performance optimisations in Snowflake, enabling accurate, reliable, and cost-effective reporting to support data-informed decision-making across the business.
- Luxury fashion and lifestyle brand - Empowered business teams gain quicker access to dependable insights by streamlining report generation, enhancing data accuracy, and developing user-friendly dashboards.
 - Designed and developed interactive Tableau dashboards and Excel-based reports to track sales pipeline dynamics, product feature adoption, and customer retention, performed analyses to uncover key behavioural insights that informed product and marketing strategies.
 - Conducted comprehensive analyses on customer segmentation and churn by examining behavioural, demographic, and product usage data, identifying trends that guided adjustments to feature offerings and customer engagement approaches.
 - Managed slowly changing dimensions (SCD) in customer and product datasets to accurately track historical changes over time, ensuring analyses and reports reflected patterns or changes tracked over time without data loss or duplication.
 - Validated and reconciled key performance indicators stored in Redshift with Excel reports and stakeholder feedback, ensuring accuracy and consistency and documented the entire data pipeline and reporting workflow to support maintainability and knowledge sharing.

Healing R. Nepal, Kathmandu

Health and counselling services - Led a digital transformation project that improved internal operations, automated communications, and streamlined data access by aligning stakeholder needs with scalable, reliable, and user-focused solutions.

Software Engineer

Mar 2022 – Aug 2022

- Led collaboration with stakeholders to gather business requirements and deliver iterative backend solutions that automated manual workflows, improved data accessibility, and enhanced operational efficiency across departments.
- Designed and developed scalable backend APIs and automated notification systems using FastAPI and Django, streamlining data processing and timely communication to support business needs.

- Implemented robust database management and optimisation strategies for both relational (PostgreSQL) and NoSQL (MongoDB) systems, ensuring data integrity, improving query performance, and supporting scalable application stability.
- Established structured development workflows and automated CI/CD pipelines with Docker and GitHub Actions, reducing deployment issues and enabling reliable, consistent delivery of data services.

Jr Software Engineer

Feb 2019 – Mar 2022

- Developed responsive frontend components using React, addressing issues with UI responsiveness and accessibility to create a smoother, more inclusive user experience.
- Collaborated with stakeholders to gather functional requirements and translated business needs into clear technical specifications, reducing miscommunication and ensuring development efforts aligned with project goals.
- Partnered with designers and marketing teams to implement comprehensive SEO strategies, solving low search engine visibility by optimizing site architecture and metadata to drive more organic traffic.
- Contributed to database integration efforts by connecting MySQL with Django applications, enabling seamless CRUD operations that supported dynamic frontend functionality and improved data consistency.
- Assisted in maintaining application quality through rigorous testing and debugging of frontend components, preventing regressions and ensuring stable feature releases.

EDUCATION

Master of Data Science and Innovation, University of Technology Sydney

Feb 2023 – Dec 2024

Major: Data Visualisation and Narratives, Statistical Thinking for Data Science, Data Science for Innovation, Machine Learning Application and Algorithms, iLab Capstone

- Completed a series of individual and group projects on machine learning, data warehousing, data mining, natural language processing, big data management, deep learning, computer vision.
- Completed the iLab Capstone at UTS, conducting research in the medical domain using Visual Question Answering (VQA) to analyse medical images and answer related diagnostic questions.

Bachelor of Engineering in Information Technology, Pokhara University, Nepal

Sep 2016 – Mar 2022

ADDITIONAL EXPERIENCE

Python Developer Trainee, Broadway Infosys, Kathmandu

Sep 2018 – Jan 2019

- Contributed to designing and optimizing REST APIs using Django, improving data retrieval efficiency and enabling seamless interaction between frontend and backend components, while gaining hands-on experience with API development, error handling, and performance tuning.
- Developed backend functionalities and designed a scalable database schema with Django and SQLite, including creating an intuitive admin panel for streamlined product management, which enhanced operational workflows and user experience for site administrators.
- Employed Git for version control throughout the development process, managing code commits, branching, and merges to maintain code integrity and support effective team collaboration.
- Conducted testing, debugging, and documentation efforts to improve code quality, facilitate knowledge transfer, and ensure maintainability of the application.

Genese Cloud Academy, Quantum Hack Participant - Developed a TensorFlow-based solution to classify animals and breeds, starting with dogs as a prototype, supporting zoology and biodiversity research. Built a Python-Django application with a user-friendly interface, laying groundwork for comprehensive species identification tools.

Major League Hacking, Bernhack Participant - Created a digital patient management system to replace Nepal's paper-based healthcare reporting. Developed a Python-Django platform for secure access to health records via national IDs, streamlining patient history retrieval. Recognised with the "**Github Best Collaborators**" award for innovation and teamwork.