

Rohan Chhetry

Sydney, NSW | 0435 265 565 | chhetry.rohan5@gmail.com | [LinkedIn](#) | [Portfolio](#)

HIGHLIGHTS

Software engineer turned Data Engineer with **2 years** of hands-on experience automating data systems using Python and cloud platforms (AWS, Azure, GCP). Proficient in transforming raw data into insights through Power BI dashboards, DAX measures, and advanced Excel analytics.

- Automated the end-to-end ML workflow using **Azure Data Factory (ADF)** and **Azure ML Studio**, and connected the results to dynamic **Power BI** dashboards, improving forecast accuracy and eliminating manual reporting steps.
- Architected and delivered high-performance, serverless **AWS** data pipelines using **AWS Lambda**, **S3**, and **AWS Glue** for automated, event-driven data ingestion and processing.
- Engineered and automated **Snowflake** ELT pipelines for large-scale data migration, utilizing **SnowSQL** and **Snowpipe** for continuous data ingestion from internal stages.

TECHNICAL SKILLS: Python | PySpark | SQL | AWS (Glue, Lambda) | Azure Data Factory | Databricks | Power BI | DAX | Tableau | JavaScript | React | Macros & VBA | EXCEL | Microsoft Azure | SQL Server | Visual Studio | LLM | Gen AI.

EXPERIENCE

UniPhi Software

Data Analyst

SYDNEY, NSW

July 2025 – Oct 2025

- Built predictive analytics pipelines in Azure integrating HR data and ML forecasting models.
- Engineered data transformation logic using **PySpark** to manage growing data volumes, utilizing the **Parquet format** for optimized storage and performance in Azure ML Studio.
- Automated the end-to-end ML workflow using **Azure Data Factory (ADF)** and **Azure ML Studio**, and connected the results to dynamic **Power BI** dashboards, improving forecast accuracy and eliminating manual reporting steps.

Genese Solution

Data Engineer

LONDON, UNITED KINGDOM

Feb 2023 – Jan 2024

- Architected and delivered high-performance, serverless **AWS** data pipelines using **AWS Lambda**, **S3**, and **AWS Glue** for automated, event-driven data ingestion and processing.
- Designed CI/CD-enabled data solutions aligned with Data best practices, ensuring robust and scalable deployments.

LIS Nepal (Yomari)

Software Engineer

KATHMANDU, NEPAL

Aug 2022 – Feb 2023

- Engineered and automated **Snowflake** ELT pipelines for large-scale data migration, utilizing **SnowSQL** and **Snowpipe** for continuous data ingestion from internal stages.
- Wrote and optimized complex **SQL** and data validation scripts to ensure data quality and integrity within Snowflake.
- Built and maintained **Power BI** and **Tableau** dashboards to track **KPIs** and support executive decision-making.

EDUCATION

CHARLES DARWIN UNIVERSITY

Master of Data Science

SYDNEY, NSW

March 2024 - November 2025

INSTITUTE OF ENGINEERING, TRIBHUVAN UNIVERSITY

Bachelor Of Computer Engineering

PULCHOWK, NEPAL

November 2018 – February 2023

PROJECTS

HR Forecasting & ML Automation — UniPhi Software (Sydney, 2025)

- Built predictive analytics pipelines using **PySpark** and **Azure ML Studio** to forecast HR metrics.
 - Automated model retraining and deployment using **Azure Data Factory (ADF)** and integrated outputs into **Power BI** dashboards, improving forecast accuracy and eliminating manual updates.
 - Enhanced stakeholder decision-making by creating a fully automated, end-to-end forecasting workflow.
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Robust Movie Recommendation System — Charles Darwin University (Sydney, 2025)

- Built a hybrid recommender system combining **SVD (matrix factorization)** and **content-based similarity** for personalized movie recommendations.
 - Developed and deployed an interactive **Streamlit** web application with real-time results.
 - Integrated external metadata via TMDB API, enabling enriched models and higher recommendation accuracy.
 - Designed modular pipelines to retrain models and update similarity matrices for continuous system improvement.
- GitHub: <https://github.com/0000Blaze/robust-recommender-systems>
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Serverless Medical Report Generator — Genese Solution (United Kingdom, 2023)

- Designed **AWS Lambda** pipelines to automate medical report generation and raw data ingestion.
 - Achieved a 40% reduction in processing time through serverless, event-driven orchestration.
 - Improved reliability and scalability by leveraging **S3**, **Lambda triggers**, and modular pipeline components.
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Domain-Specific NLP Chatbot — Genese Solution (United States, 2023)

- Led the development of an **NLP**-based chatbot that converts natural-language questions into **SQL** queries.
 - Built automated data-retrieval and deployment pipelines to enable continuous model improvement.
 - Streamlined insights delivery for non-technical business users across multiple departments.
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OCR & Text-to-Speech Automation — LIS Nepal / Yomari (Nepal, 2022–2023)

- Developed a Python-based **OCR + TTS** system to automate text extraction and audio output.
 - Improved processing speed by 25% through optimized preprocessing and model integration.
 - Delivered a production-ready workflow for automated document-to-speech transformation.
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CERTIFICATIONS & AWARDS

- Artificial Intelligence Fellowship – Fusemachines (2022-23)
- Data Fellowship – Code For Nepal (2023)
- Associate Member – Australian Computer Society (2024-Present)
- IT Head & Advisor – Leo Club of Kathmandu Budhi Gandaki (2020-24)
- Winner – Yomari Coding Competition (2022) | Datathon OpenIMIS-DRG Thailand (2022)
- Organiser – Locus Coding Competition (2023) | Presenter – AeHIN Hour (2022)