

# Rohan Chhetry

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## HIGHLIGHTS

Data Engineer with 3 years of experience automating data systems, transforming raw data into insights through data modelling, analysis, and visualisation using SQL, Power BI, Python, and cloud platforms (AWS, Azure) for Amazon, SHAC health, among other clients across tech and health.

- 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 human resource prediction for future projects.
- Designed and delivered an LLM RAG chatbot with Amazon Bedrock APIs, serverless event driven AWS Lambda for generation of SQL from natural language.
- Collaborated with senior stakeholders across HR and Health to translate business priorities into actionable analytics.

**TECHNICAL SKILLS:** Power BI | DAX | Excel (Advanced) | Python | SQL | AWS | Azure | PySpark

## EDUCATION

### CHARLES DARWIN UNIVERSITY

*Master of Data Science*

SYDNEY, NSW

*March 2024 - November 2025*

### INSTITUTE OF ENGINEERING, TRIBHUWAN UNIVERSITY

*Bachelor Of Computer Engineering*

PULCHOWK, NEPAL

*November 2018 – February 2023*

## EXPERIENCE

### UniPhi Software

*Data Analyst*

SYDNEY, NSW

*July 2025 – Nov 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, utilising 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.
- Enhanced stakeholder decision-making by creating a fully automated, end-to-end forecasting workflow.

### Genese Solution | Client: Amazon re: Invent 2023, USA

*Data Engineer*

LALITPUR, NEPAL

*Aug 2023 – Jan 2024*

- Designed and delivered high-performance, serverless **AWS** data pipelines using **AWS Lambda**, **S3**, and **AWS Glue** for automated, event-driven data ingestion and processing.
- Led the development of an **NLP**-based chatbot with **LLM Amazon Bedrock API** that converts natural-language questions into **SQL** queries.
- Built the backend APIs with the interactive react frontend

### Genese Solution | Client: SHAC Health, USA

*Data Engineer*

LONDON, UNITED KINGDOM

*Feb 2023 – July 2023*

- Designed **AWS Lambda** pipelines to automate HIPAA-compliant 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.

### LIS Nepal (Yomari)

*Data 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.

## NOTABLE PROJECTS

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**Charles Darwin University | Client: Robust Movie Recommendation System**  
*Data Scientist*

SYDNEY, NSW  
*March 2025 – June 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.

**Institute of Engineering | Client: OCR & Text-to-Speech Automation**  
*Software Engineer*

LALITPUR, NEPAL  
*Dec 2022 – June 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.

## CERTIFICATIONS & AWARDS

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- 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)