

Anish Karki

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

Profile

Experienced Database Administrator and Data Analytics graduate with strong SQL, Python, and data visualisation expertise. Passionate about extracting insights from data, optimising data processing, and leveraging machine learning for data-driven decision-making. I am eager to work in data analysis and grow into data science, expanding my expertise in AI, big data, and advanced analytics.

Experience

FOUNDER (SEO SPECIALIST) | A&S TECHNOLOGY (SOLO TRADER) | 2024 – PRESENT

My solo trader business will handle small businesses, integrate technology, and increase their productivity and customer base.

- Developed a static website using html, css, js, Wix and WordPress for small businesses and sole traders.
- Optimised website content for better SEO performance.
- Handeled Meta Marketing, Google ads and analytics for more than five small businesses, increasing the conversion rate by more than 50%.
- Performed extensive business and keyword research and provided content and ad recommendations along with weekly reports to the businesses.

DATABASE ADMINISTRATOR | COTIVITI TECHNOLOGY | JUNE 2018 – JUNE 2023

Cotiviti is a multinational payment accuracy solution based in the United States that provides data analytics solutions to health insurance companies in the USA. With more than 9 petabytes of data, it is one of the leading payment analytics companies in the USA.

- Performed daily DBA duties, including database backups, patching, deployment, tuning, schema management, data management, storage management and user management, smoothly handling over 100+ production critical databases.
- Developed a centralised backup management system for SQL Server, MySQL, Vertica, Oracle and PostgreSQL, reducing storage costs, saving person-hours, and ensuring 99.99% data recovery reliability.
- Implemented role-based access control (RBAC) and user schema design to comply with enterprise security standards and compliance requirements.
- Managed database patching and system upgrades for 100+ mission-critical databases, ensuring zero unplanned downtime.
- Optimised databases through strategic indexing, table partitioning, and query caching, improving application performance by approximately 10%.
- Transitioned the production databases into the AWS cloud and supported the AWS database operational processes.
- Performed large-scale PostgreSQL database upgrade, working directly with AWS vendor with minimal downtime.
- Engineered a data pipeline transferring 2TB+ data daily from Oracle to Vertica using Apache Spark and Kafka.

- Worked in a cross-cultural environment, directly collaborating with offshore teams (India and USA).
- Supported and helped onboard junior members, training them and working as a team lead.

Education

MASTERS OF ICT | JUNE 2025 | UNIVERSITY OF SUNSHINE COAST, SUNSHINE COAST, QLD

- Coursework: Cybersecurity, Machine Learning, Data Visualisation, Data governance, Database management system, Research Methodology, Project Management.
- Industrial certification from Microsoft and Certiport: Python, Data, Power Platform.

BACHELOR OF SCIENCE IN COMPUTER SCIENCE | SEPT 2018 | KATHMANDU UNIVERSITY, DHULIKHEL, NEPAL

- Developed complex projects such as facial recognition using eigenface and an intelligent flappy bird in 2015.
- Developed music management and student portal in Django and library management in C++.
- Completed internship at Cotiviti Technology as an Automation Engineer developing a data transfer pipeline.
- Passed with 3.7/4.0 and the highest GPA in the batch.

Skills & Abilities

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| • Database Administration (SQL SERVER) | • Analytical dashboard using Plotly-Dash Python. |
| • Python scripting and development. | • Advance SQL scripts. |
| • Django, Flask and Fast API | • Data Visualisation with Power BI and Excel |
| • RHEL 6/7/8 | • GIT CI/CD |
| • Jenkins | • JIRA / Confluence |
| • C/C++ | • Machine learning algorithms (Supervised) |
| • ETL pipeline, data migration | • Data Preprocessing and Analysis |
| • AWS (PostgreSQL, MySQL, EC2, serverless) | • Docker / Kubernetes |

Certifications

- Python Fundamentals by PearsonVue (2024)
- Microsoft Azure Data Fundamentals by Microsoft – 2024
- Microsoft Security, Compliance, and Identity Fundamentals by Microsoft -2023
- Microsoft Power Platform Fundamentals -2024
- Microsoft Azure AI fundamentals – 2024

Projects

- Coffee Sales Analytics: Power BI and Excel dashboard performing data analytics on sales data.
- Housing Price Predictions: Implement data preparation, cleaning, analysis and visualisation methods to implement regression analysis to predict house prices.
- Centralised database backup management: Python and SQL-based backup management system for cross-platform enterprise databases.
- Database size predictor using LSTM for intelligent storage allocation.
- Oracle to Vertica Data transfer pipeline with Kafka, Confluent and Apache spark.

Activities and Interests

- Opensource Contribution: Contributor in minor bugs in opensource libraries like Pandas and NumPy.
- Hackathon: Won a 2015 hackathon in Cotiviti, developing a health insurance claim fraud detector prototype using machine learning models.
- Won first prize in the individual enterprise coding challenge in Cotiviti.
- Active problem-solving on the coding challenge Leetcode platform.

References are available on request.

- I acknowledge using tools like Grammarly with advanced generative AI features to reformat and correct the document and portfolio to make it look more professional.