

Anish Karki

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

Profile

Database Administrator with over 5 years of experience and strong knowledge of SQL, Database Tuning, Python, Bash Scripting and RHEL system. Currently pursuing a master's with a core focus on Data Analytics and Machine Learning to contribute to the emerging field of AI. Open to working in data analysis and engineering to gain industrial experiences to expand my career as a data scientist and ML engineer.

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.

- Daily DBA responsibilities include database and application patching, database deployment, backup and tuning, schema and user management, storage management, and supporting 100+ large-scale production databases.
- Responsible for automating the database-related task and creating automation scripts using Python, Bash and PowerShell, reducing the man-work hour by 50%.
- Implemented robust security features like data encryption at rest and in transit, RBAC access control and database audit to comply with company needs and compliance requirements.
- Patched and upgraded on-premises and cloud databases, directly working with a vendor, to maintain zero unplanned downtime.
- Collaborated with application and SQL developers to implement indexing, query tuning, and partitioning to reduce the application time by 10%.
- Architected a data flow pipeline to transfer data from Oracle to Vertica using open-source platforms Apache Spark and Kafka Confluent to transfer low-size tables, reducing the cost of transferring data using enterprise tools.
- Supported new members onboarding and training and directly worked as a team leader for automation and administration duties.
- Resolved 100+ JIRA tickets monthly and adequately documented the process in the Confluence platform.

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++.
- Passed with 3.7/4.0 and the highest GPA in the batch.

Skills & Abilities

- Database Administration (SQL SERVER)
- Python scripting and development.
- Django, Flask and Fast API
- RHEL 6/7/8
- Jenkins
- C/C++
- ETL pipeline, data migration
- AWS (PostgreSQL, MySQL, EC2, serverless)
- Analytical dashboard using Plotly-Dash Python.
- Advance SQL scripts.
- Data Visualisation with Power BI and Excel
- GIT CI/CD
- JIRA / Confluence
- Machine learning algorithms (Supervised)
- Data Preprocessing and Analysis
- 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 sales data analysis.
- Housing Price Predictions: Implemented data preprocessing, feature engineering and model training to implement regression analysis to predict house prices.
- Centralised database backup management: Central backup management studio supporting cross-platform enterprise databases.
- Intelligent size estimator for proactive storage allocation.
- High speed and quantity data transfer pipeline with Confluent Kafka 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.
- 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.

Reference

Anish Karki / Database Administrator & Data Analytics Professional. (2023). Github.io.
<https://anishkarki.github.io/>