

Anish Karki

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[Portfolio](#)

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. I am open to working in data analysis and engineering to gain industrial experience to expand my career as a data scientist and ML engineer.

Experience

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

My sole trader business handled digital marketing for small businesses, integrated technology, and increased their productivity and customer base.

- Developed a static website using HTML, CSS, JavaScript, Wix and WordPress for small businesses and sole traders.
- Optimised website content for better SEO performance.
- Handled 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 tasks and creating automation scripts using Python, Bash and PowerShell, reducing the manual work hours 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 data flow pipeline to transfer data from Oracle to Vertica using open-source platforms Apache Spark and Kafka Confluent to transfer small tables, reducing the cost of transferring data using enterprise tools.
- Supported new members' onboarding and training, and 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

- Research on “How are self-explainable Vision Transformers Revolutionising Explainability and Trust in X-ray Image Classification in Radiology: A Systematic Review”.
- 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

- Three-month internship as an Automation Engineer to develop an automated data pipeline for disaster recovery from production to the disaster recovery server in Cotiviti Technology.
- Developed complex projects such as facial recognition using eigenfaces 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 GPA.

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.
- Advanced 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

- Open-source Contribution: Contributor to minor bugs in open-source 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 on the Leetcode platform.

References are available on request.