

# Dhawal Negi

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**AWS Certified Data Engineer** with strong foundations in **ETL, data Warehousing, and cloud services**, skilled and experienced in building scalable solutions and enhancing data-driven decision-making processes.

## WORK EXPERIENCE

### Cloud Data Engineer Co-op | Precision Planting

Jan 2024 - Aug 2024

Python, ETL Pipeline, AWS Cloud, GitHub Action, ETL, Data Modelling

Bloomington, IL

- **Led** the AWS data lakehouse implementation, efficiently consolidating data and reducing retrieval times by 60%.
- Developed automated data validation scripts and cataloging, reducing error rates by 40% and **enhancing data quality**.
- Streamlined data pipelines with AWS Glue and Spark, **reducing data silos** and boosting efficiency across teams.
- Designed **high available and scalable setups** with AWS CDK, achieving 99.9% uptime for critical databases.
- **Optimized deployment processes** using GitHub CI/CD actions, achieving a 60% reduction in deployment time.
- Analyzed sales data trends for multiple product lines, improving forecasting accuracy and **better resource planning**.
- **Collaborated** with cross-functional teams to deliver highly available data services for business on time and within budget.

### Senior Software Engineer | Newfold Digital

June 2020 - Aug 2022

Kafka, PostgreSQL, Python, Java, Data pipeline, REST Api

Bangalore, India

- Built pipelines for **change data capture** with PostgreSQL and Kafka, enhancing sync speed by 10 times.
- **Migrated** legacy systems to a dockerized setup on OKD, enhancing scalability and reducing deployment times by 50%.
- Configured Kong Gateway with LUA plugins, ensuring **secure data transmission** and lowering service load by 25%.
- Developed **CI/CD pipelines** for OKD using **Helm**, integrating automated testing to reduce errors by 40%.
- Rebuilt legacy payment gateway module as a Spring Boot **microservice**, cutting request processing time by 30%.
- **Integrated APIs** from India's GST portals to automate invoice registration, enhancing billing compliance and accuracy.

### Software Engineering Intern | Newfold Digital

Jan 2020 - May 2020

Python, Java, Jenkins, Pytest, RPA

Bangalore, India

- Implemented RPA framework to **automate deployment with testing**, reducing manual testing time by 70%.
- **Designed** and integrated database models for the persistent cart, ensuring data integrity and platform reliability.
- Enhanced e-commerce platforms by integrating session data, **improving user experience** and retention.

## EDUCATION

### Northeastern University | Master of Science in Data Architecture and Management

Sep 2022 - Dec 2024

Courses - Gen AI Data Engineering, Data Modelling, Big Data Architecture and Analytics, Data Governance

Boston, MA

### Visvesvaraya Technological University | B.E in Computer Science and Engineering

Jul 2016 - Jul 2020

Courses - Data Mining and Warehouse, Cloud Computing, Machine Learning, Advanced Algorithms

Bangalore, India

## TECHNICAL SKILLS

Programming Languages	: Python, SQL, Shell script, Java, Spark, R, JavaScript
Databases	: PostgreSQL, MySQL, Oracle, Snowflake, DynamoDB, Redis, MongoDB, Neo4J
ETL Tools	: AWS Glue, Azure Data Factory, DBT, Talend, Apache Kafka
Orchestration and Enterprise	: Apache Airflow, Docker, Amazon CDK, Jenkins, Terraform, Kubernetes, Datadog
Cloud & DevOps	: GCP(Bigquery, DataPrep), AWS(Lambda, EC2, Athena, Iac), Microservices, Github actions
Certifications	: AWS Solution Architect - Associate

## ACADEMIC PROJECTS

### NewsSphere: Personalized News Digest Platform | Airflow, OpenAI, Docker, Pinecone, Google Cloud, Fast API

- Engineered scalable data pipelines with **Airflow on GCP**, automating ETL processes for news data every 8 minutes.
- Implemented data storage systems with Azure SQL and Pinecone, **optimizing news indexing** for personalized access.
- Developed **RESTful APIs** with FastAPI for JWT authentication, ensuring secure and seamless data interaction.

### SnowGPT: Langchain based snowflake querying | Snowflake, Streamlit, Langchain, OpenAI

- Loaded and **transformed datasets into Snowflake**, ensuring accurate analytics with consumer and app usage data.
- **Developed UDFs** for behavior analysis, identifying user interests and demographics for enhanced insights.
- Converted English queries to SQL using **Langchain**, enabling seamless data retrieval from Snowflake.

### Multi-city Food Inspection Analysis | Python, Talend, PowerBI, Tableau, SQL

- Conceptualized **dimensional models and implemented ETL pipelines** with Talend for efficient data warehousing.
- Optimized data loading processes, facilitating seamless transition from **staging to facts and dimensions**.
- Crafted visually **engaging reports**, improving stakeholder understanding of multi-city food inspection data.