

# Anish Machamasi

Data Engineer

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## Profile

Experienced Data Engineer with over 1.5+ years in designing and optimizing data pipelines. **AWS Solutions Architect Associate**. Proficient in Python, SQL, PySpark, and FastAPI, with a focus on data quality, performance, and cost efficiency. Skilled in backend development and data integration across storage systems, with Agile experience.

## Areas of Expertise

- **Data Engineering:** Designing and maintaining ETL pipelines using tools and programming languages such as Python, SQL, and Java.
- **Programming Languages:** Python, SQL
- **Cloud Platforms:** Amazon Web Services (AWS) and Azure Cloud Services.
- **DevOps & CI/CD:** Skilled in GitHub, AWS CodePipeline, Terraform, and CI/CD processes for seamless deployments.
- **Backend Development:** Experience in building APIs and backend systems using FastAPI.
- **Data Processing Tools:** Expertise with Apache Spark, PySpark, Apache Airflow, and Kafka for large-scale data processing.
- **Collaboration & Leadership:** Strong communication skills with cross-functional teams, mentoring, and collaboration in Agile environments.

## Professional Experience

**Data Engineer, (Genese Solution)** 06/2023 - present

- Designed and implemented a data warehousing system, including data migration, processing, and visualization, using tools like Apache Nifi, Apache Airflow, and Apache Spark.
- Developed ETL pipelines integrating data from various sources into a consolidated data warehouse using Python and SQL.
- Built analytics tools leveraging Generative AI and AWS services to enhance data accessibility and user interaction with databases.

**AI Fellow, (Fusemachines)** 11/2022 - 05/2023

- Developed a machine learning model for accident severity prediction, enhancing analytical capabilities and providing insights for data-driven decision-making..

**Data Engineering Apprentice, (Code Rush)** 07/2022 - 02/2023

- Worked on projects involving data engineering and AWS cloud services, including building data pipelines for various applications such as web scraping and cryptocurrency data integration.

**Personal Projects** 01/2022 - present

- **Data Analysis System** Healthcare Data Analysis System: Developed a system to translate natural language queries into SQL for data analysis, utilizing AWS Athena and Lambda.
- **Web Crawling System** Created a scalable web crawling system with Selenium and AWS services for data collection and analysis, integrating with visualization tools like QuickSight.
- **Twitter Data Pipeline** Built a pipeline to collect and analyze Twitter data, using Apache Airflow for orchestration and S3 for data storage.

## Awards and Honors

- **All Builders Welcome Grant** - Selected by Amazon Web Services (AWS) for the prestigious grant, covering full attendance at re:Invent 2024 in Las Vegas, including conference pass, airfare, and accommodations. Recognized for being an innovative technologist within the first five years of career, 2024.

## Education

Degree	Institution	Year	Percentage / CGPA
Bachelor's in Computer Engineering	Khwopa College of Engineering	2022	74.84%
Plus 2 (Science + Mathematics)	Khwopa Secondary School	2018	3.58 (CGPA)
SLC	Sooryodaya Secondary School	2016	3.7 (CGPA)

## Online Courses & Certifications

- AWS Solution Architect Associate - [Amazon Web Services \(AWS\)](#)
- AWS Academy Data Engineering Course - [Amazon Web Services \(AWS\)](#)
- AWS Certified Cloud Practitioner - [Amazon Web Services \(AWS\)](#)
- Introduction to Git and GitHub - [Coursera](#)
- Introduction to Relational Databases (RDBMS) - [Coursera](#)
- The SQL for Data Science - [Coursera](#)
- Introduction to Designing Data Lakes on AWS - [Coursera](#)
- Hands-on Introduction to Linux Commands and Shell Scripting - [Coursera](#)

## Languages

- English
  - Nepali
- Newari