



# BISHNU POUDEL

Data/ML Engineer, DevOps Engineer, Software Engineer

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Bangalore, India

in bishnu-poudel

vsnpoudel

*Prefer to work in smaller teams or start-ups on a contract or project basis. Strong Background in SQL, ML/AI, Python-Dev, Cloud Infra (GCP).*

*For finance, retail, pharma and social-media clients, I have provided optimal solutions to data quality issues, machine learning applications, and data operations automation. Accurate communication, minimal consumption of time/resources for delivery of solutions are my priorities.*

## TECH STACK

SQL NoSQL Linux

Python Flask GCP

Data-Operations Git

Machine and Deep Learning

Kubernetes

Docker React

Language Agnostic DevOps

Distributed Computing

## LEARNING

Software Architecture

Distributed Applications

React Django

## LANGUAGES

English: Native

Scandinavian: B1

## EDUCATION

Masters in Data Science  
| Norwegian University  
of Life Sciences

- Jul 2019 - Oct 2020
- Ås, Norway
- GPA: 3.80

Relevant courses

- Data Science and Statistics.
- Machine and Deep Learning, Image Analysis.
- Advanced Python Programming
- Data Structures and Algorithms

## EXPERIENCE

Senior Data Engineer, Python Backend Developer | IBM

Mar 2023 - Sep 2023

Bangalore, India

- For a database migration project in GCP-Big Query: improved code quality, recommended better quality-check and architecture strategies.
  - Debugged inconsistent data-types, and anomalies that were missed due to attention to detail.
  - Added additional test-cases to test business rules, discovered undocumented inserts in fact/dimension tables.
  - Recommended using BigQuery instead of Dataflow for ETL as most of the data sources were either Bigquery or Cloud Buckets, and transformations were straightforward.
- Delivered enhancements accurately and quickly on API development/deployment efforts in GCP server-less while helping inexperienced folks ramp up.
  - Proactively acquired information/knowledge from offshore developers and took ownership of development/enhancement efforts.
  - Helped inexperienced folks get unstuck, by closely guiding them and improving documentation of codes/processes.
- Analysed technical and project-management challenges.
  - Analysed Gaps in knowledge transfer sessions, and asked onshore developers for further documentation and clarity.
  - Updated management on the number and quality of personnel required to own/manage the transferred projects.
- Tools: Python- Flask FastApi, SQL, GCP server-less infra, Git

Lead Analyst, Devops Engineer | Ugam Solutions

Mar 2022 - Sep 2022

Bangalore, India

- Deployed/Monitored around 50 data pipelines, Spark Jobs, analytical queries on an on-site cluster on a daily basis. Communicated accurately in real time (like a call center) with developers/testers. I was a bridge between these developers and the production environment, and any deployment or tests had to go through me.
- Solved problems in real-time and on an urgent basis in a high pressure environment. We had a response time of a couple of minutes and a turn-around time of 15 minutes for the tickets we get.
  - Decreased daily manual efforts by 75 % by automating routine tasks: picking up and uploading pipeline codes, running daily SQL Query reports, testing multiple but similar pipelines etc.
  - Took initiative to convert remote VMs into GUI from CLI leading to increased productivity.
  - Managed requests quicker, made communication transparent among 15+ requestors per day.
  - Even if not a part of Job Description, learnt the source code myself and recommended better approaches to code the pipeline.
  - Tools: Git, Hadoop, Python, Shell, REST API, Spark, Hive.

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## Bachelors of Tech. in Electronics and Communication | NIT Durgapur

- Jul 2009 - May 2013
- West Bengal, India
- GPA: 8.28 out of 10

### Relevant courses

- C, C++, OOP.
- Operating System.
- Data Structures and Algorithms

## CERTIFICATIONS

### Online Courses | Coursera

- 25+ courses, 7+ specializations on Machine and Deep Learning using Tensorflow/Python.
- 10 Course Data Science Specialization using R.
- Google Cloud certifications, Labs.
- Web development backend (Flask, FastApi), Web development frontend

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## Teaching Assistant | Norwegian University of Life Sciences

📅 May 2020 – Sep 2020

📍 Ås, Norway

- Guided students and collaborated to find solutions, rather than feeding answers directly in these subjects: Data cleaning, Machine Learning, and Python Development.
- Saved the teachers time and sanity by proactively looking for solutions on my own, so that they can focus on course-work.

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## Software Engineer, Data Operations Engineer | Verisk Analytics

📅 May 2015 – Feb 2019

📍 Kathmandu, Nepal

Provided technical support in the form of data analysis, reports automation, daily operational support, software enhancement/debugging to 5 notable banks in the USA. I was the primary POC, and had a comprehensive set of responsibilities:

- Make sure all the servers are up
- Confirm the 500+ daily files have arrived, other weekly and monthly files have arrived and have loaded into respective databases.
- Send out daily reports, automate non-automated reports.
- In case of any errors anywhere, solve it myself within the same day.

In addition to the daily operational duties, I handled new development and enhancement efforts also. Some of the notable development tasks were:

- Automated data back-end and ETL operations in MS-SQL and .NET stack.
- Extracted key metrics from several unstructured text files. Daily data entry efforts for 50 files (1 million lines of text) per day was avoided
- Automated daily generation of critical XML files, several Excel Dashboards.
- Documented common troubleshooting techniques. Shared common solutions to adjacent teams working on similar projects.
- Tools used: TSQL, COBOL, SSIS, Excel, Python, Shell, .NET.

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## Decision Scientist, Data QA Engineer | Mu Sigma

📅 Jul 2013 – Mar 2015

📍 Bangalore, India

- ETL migration, Data Quality assurance, Business-rules validation.
- Thorough quantitative checks and data validation on several roll-ups done by me provided a roadmap for the rest of the team to follow.
- Tools used: SQL, Informatica, Excel, SAS, R, QlikView.