ANUSHEEL CHAPAGAIN

chapagainanusheel@gmail.com | +1-709-691-3985| St. John's, Canada
|LinkedIn|

Professional Summary

Results-driven Data Architect and ML Engineer with 4+ years of experience specializing in industrial-scale data solutions and predictive analytics. Proven track record of implementing mission-critical data pipelines and ML models for construction, energy, and industrial sectors. Currently managing $25M weekly data analytics for a mega construction project. Key achievements include developing an 88% accurate ML model for workplace safety and a 90% accurate energy forecasting system. Expertise in real-time sensor data streaming, ETL pipeline optimization, and cloud-based document management systems.

Professional Experience

SDP GP   **St. Johns, Canada**
Data Architect- West White Rose Project   2023 Aug – Current

- Design, deploy, maintain and debug,-- Extract, Transform , Load and Distribute (ELTD) Labour Performance Index data pipeline – (a *weekly project efficiency measuring analytics)* incurring 25 millions of weekly project expenses of a mega construction project - West White Rose.
- Setup, model and administer a cloud based database (Quickbase) to store technical documents of large-scale commissioning systems tracking and analyzing 50,000+ documents on a daily basis.
- Designed and locally deployed Safety Incident Prevention System- a predictive ML model achieving 88% accuracy in identifying high-risk fatigue states among industrial workers, potentially preventing workplace accidents – Engineering features from [work schedules, incident reports and weather]
- Enhancing and improving the data processing time of large-scale engineering dataset by adapting new technologies like Python and Python dbt.

GajjabIT   **Kathmandu, Nepal**
ML / Analytics Engineer   2019 Nov – 2021 Nov

- Designed and developed Energy Consumption Forecasting System - a predictive ML model achieving 90% accuracy in energy consumption forecasting enabling proactive optimization to heavy electricity industries - Engineered features from historical energy usage data, weather patterns and operational schedules to predict consumption trends.
- Designed and deployed scalable data architect data workflow for real-time sensor data streaming and analytics application - engineered scalable streaming platform processing 50+ sensors across hydropower electric stations streaming 100 data points refreshed every 5 seconds - equipped with real-time data validation and anomaly detection reducing false alerts by 30% - with high level data visualization for the stakeholders.

Education

- **Memorial University of Newfoundland**   **St. Johns, Canada**
  MASc. Energy System Engineering   22 Jan – 2023 Apr
  Relevant Coursework: Computer Software Fundamentals
  Relevant Project : Data Governance Framework Design for Peer-Peer Energy Trading System Using Blockchain.
- **Kathmandu University**   **Dhulikhel, Nepal**
  Bachelor's in Mechanical Engineering   2015 Aug – 2019 Nov

Relevant Coursework: *Advanced Mathematics, Statistics, Introduction to C Programming Language , Introduction to Object Oriented Programming (C++)*

Skills Summary

Languages / Libraries   Python(pandas, scikit-learn,fastapi, pytorch), C, C++, SQL,Javascript