

# Bibek Chandra Poudel

## Data Scientist

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### Professional Summary

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Highly motivated and dedicated Data Scientist with over a year of experience in data analysis, machine learning, and developing data-driven solutions. Proficient in statistical modeling, predictive analytics, and programming, with a solid background as a QA Tester ensuring software quality and reliability. This unique combination of skills enables me to approach problems with both analytical precision and a quality-focused mindset.

### Objective

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Seeking a challenging role in a reputed company where I can leverage my expertise in data science to deliver impactful solutions while contributing to organizational growth. I aim to enhance my knowledge and skills further by exploring innovative technologies and approaches in a dynamic and collaborative environment.

### Experience

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**Data Scientist (Contractual)**, Ncell, Gforce Systems & Technologies - Kathmandu Nov 2023 – Present

Skills: Python, SQL, Feature Engineering, Model Building, Pandas, NumPy, Matplotlib, Seaborn, Git, GitHub

- Extracted and transformed data from extensive datasets using SQL queries, selecting relevant columns, and engineering new features to enhance model performance.
- Developed and trained multiple machine learning models, evaluating them based on accuracy and performance to select the best model for future predictions.
- Designed and implemented rule-based systems for specific projects, combining domain-specific rules with data-driven models to create hybrid solutions.
- Conducted feature selection and engineering to optimize input features for predictive accuracy, utilizing techniques like scaling, encoding, and feature transformation.
- Collaborated with stakeholders to understand project requirements, translating business problems into data-driven solutions.
- Analyzed and visualized data using tools like Python (Pandas, Matplotlib, Seaborn) and Excel for insights and reporting.

**Associate QA Engineer**, HAMRO PATRO - Kathmandu Feb 2023 – Nov 2023

Skills: Manual Testing, Postman, JMeter, Automation Testing, Selenium, Appium, Looker Studio

- Began my journey as a QA trainee, where I conducted manual testing on Hamro Pay to ensure its readiness for release. Following the release, I ventured into automation by experimenting with Selenium.
- Upon my promotion to the role of Associate QA Engineer, I took on the responsibility of conducting manual testing for Tele-health.
- Contributed to the Let's Read client project, focusing on enhancing its quality to minimize bugs.
- Conducted research and acquired knowledge of Looker Studio to visualize BigQuery data.
- Acquired proficiency in Postman for API testing, JMeter for load testing, and Selenium for automation.

**Committee Member**, PROJECT EXHIBITION AT NCIT Aug 2022 - Sep 2022

This program primarily seeks to create a platform for junior and senior students, allowing them to showcase their project ideas, present demos, and receive feedback from teachers and industry guests.

Skills: Event Management, Decision Making, Team Collaboration

- Organized Program being one of the committee members.
- Planned different events for the program.

- Managing and coordinating with volunteers.

## Education

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**Nepal College of Information Technology**, Bacheor in Computer Engineering (Pokhara University), Balkumari-Lalitpur Aug 2022

- GPA: 3.45/4.0
- **Coursework:** Computer Architecture, NLP, Data Mining and Warehouse, Big Data, Artificial Intelligence, Image Processing, Computer Graphics, DSA, DBMS

**The Times Higher Secondary School**, +2 - SCIENCE, Dillibazar-Kathmandu Aug 2017

- Graduated with First Division: 68.40
- **Coursework:** Math, Physics, Chemistry, Biology

**Motherland English Boarding School**, SLC, Sandhikharka-Arghakhanchi Jun 2015

- Graduated with distinction: 81.88
- **Coursework:** Math, Science, English, Social Studies, EPH

## Projects

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### Churner Prediction

Skills: SQL, Data Gathering, Data Cleaning, Feature Engineering, RandomForest, Python, Model Building

- Build a machine learning model using supervised learning that detects whether a user is likely to be churned in the next months based on the last 5–6 month period data.

### HVC Dropper Prediction

Skills: SQL, Data Gathering, Data Cleaning, Feature Engineering, RandomForest, Python, Model Building

- Build a machine learning model using supervised learning that detects whether a high-value user is likely to be leaving the services they used provided by us using his behavioral/usage data from the last 6 months.

### Credit Scoring

Skills: Python, SQL, Data Gathering, Data Cleaning, Feature Engineering, Rule Based Model, K-Means Clustering

- Develop a hybrid model that combines a rule-based approach with k-means clustering.
- The rule-based model analyzes historical user data to generate a score, which is then used as input for the k-means clustering algorithm.
- The clustering process classifies users into distinct groups, and each cluster is assigned a specific rating based on its characteristics.

### Revenue Prediction

Skills: SQL, Data Gathering, Data Cleaning, Prophet Model

- Create a revenue prediction model using the Facebook Prophet framework, designed to analyze a year's worth of historical data.
- The model will account for seasonal trends and holiday effects, providing accurate forecasts of future revenue patterns.

### ChatBot

Skills: LLaMA model, vectorization, similarity search, python

- Develop a local chatbot that operates without relying on external APIs. The chatbot uses a pre-trained model with some in-built information and allows users to train it further using any file type (e.g., PDF, TXT, etc.).
- Once trained, the model can perform similarity searches, enabling users to ask questions and receive answers based on the content of the trained files.

### Sentiment Analysis for Business Reviews

Skills: NLP · CNN · BERT · Transformers · Python · Flask · Docker

- Developed Convolutional Neural Network (CNN) and Bidirectional Encoder Representations from Transformers (BERT) models to meticulously analyze user sentiments in diverse product reviews, achieving an impressive accuracy rate of 86 and an exceptional 91, respectively.
- Engineered an intuitive user-centric application that seamlessly captures user sentiment data through multiple channels, including manual entry, file uploads, and API integration.
- Established a robust Natural Language Processing (NLP) pipeline to preprocess and transform raw data systematically, optimizing it for effective utilization by the machine learning models.
- Led the creation of a user-friendly interface, utilizing Python, Flask, React, and Docker for seamless data input and sentiment analysis, ensuring scalability and efficiency.  
[github.com/Bibekpdl1/Sentiment-Analysis-For-Business-Review](https://github.com/Bibekpdl1/Sentiment-Analysis-For-Business-Review)

### **Brain Tumor Detection**

Skills: Image Processing · CNN · Python · Flask

- Build a Deep Learning model that detects whether a patient has a tumor or not based on the MRI images of that patient's brain.
- Performed image processing and trained the model using CNN yielding an accuracy of 93.
- The model was deployed to Heroku using FastAPI, HTML, and CSS.  
[github.com/Bibekpdl1/Brain-Tumor-Detection](https://github.com/Bibekpdl1/Brain-Tumor-Detection)

### **CVD Detection**

Skills: Data Cleaning · RandomForest · Python · Flask

- Made a machine learning model using supervised learning that detects whether a patient will have any heart disease or not based on the current health status of that person.  
[github.com/Bibekpdl1/CVD-Detection](https://github.com/Bibekpdl1/CVD-Detection)

## **Skills**

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**Programming:** Python, SQL

**Data Science and Machine Learning:** AI, ML, NLP, Feature Engineering, Model Building

**Data Visualization:** Looker Studio, Matplotlib, Seaborn, Excel

**Tools and Platforms:** GitHub, Automation Testing (Selenium/Appium)

**Data Handling:** Querying and Feature Extraction with SQL

**Software Testing:** Manual Testing, Automation Testing

## **Languages**

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Nepali, English, Hindi