

Aashutosh Bista

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## Career Objective

Motivated and detail-oriented Computer Science and Artificial Intelligence student seeking opportunities to apply strong analytical, programming, and problem-solving skills in real-world projects. Eager to contribute to innovative solutions in data science, AI, and software development while continuously learning and growing in a professional environment. Passionate about leveraging technology to bring creativity, efficiency, and impact to organizations.

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## Educational Background

### BSc (Hons) Computing with Artificial Intelligence

Sunway College, Birmingham City University - Kathmandu, Nepal

(November 2023 – Present)

4th Semester completed

### Higher Secondary Education(+2)

Trinity Intl college, Dillibazar Height, Kathmandu, Nepal

stream: Science

(2021- 2023 )

3.7 GPA

### Secondary Education

Nava Suntain Academy, Gokarneshowr, Kathmandu, Nepal

(2021 )

3.95 GPA

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## Skills

### Technical Skills

- Web development: HTML, CSS, JavaScript, ReactJS, Php and Django.
- Programming Languages: Java, Python, Basic C programming and FastAPI
- Databases: SQL, PostgreSQL, MariaDB and Redis
- Applications & Tools: VS Code, Power BI, Apache Airflow, MIFlow, Docker.
- Operating Systems: Windows, Linux (VirtualBox)
- Machine Learning Libraries: Sci-kit learn, XGBoost, RandomForest, Pandas, NumPy, Matplotlib, Seaborn, Encoders, K-fold Cross Validation, Logistic Regression.

## Soft Skills

- Good Communication
  - Team work
  - Time Management
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## Projects

### Academic Projects

#### Hospital Management System(Python):

Designed and implemented a console-based Python application to manage hospital records, allowing admin-level access for patient and doctor record verification and retrieval.

#### Student Portal:

A PHP based project, capable of providing as a educational platform for students, Teachers and Admin. Made with user specific roles this project provides features such as material upload, assignment creation, grading, submissions and user management.

**Github**

#### Flight Management Application (Java):

A application designed and developed in Java to manage flight ticket bookings. Key features, including customer registration, ticket generation, and schedule management, were implemented using object-oriented design principles.

#### MLOPs Customer Churn Prediction:

A Machine Learning pipeline which ingests, preprocesses, validates, splits, stores and feeds the data into an algorithm. Creates a model stores it and deploys it for application, made by the use of Airflow, MLFlow, Docker, Python, Fast API on a Linux based System.

**Github**

#### CIFAR-10 data, Algorithm Comparision :

A dive into to images and it's classification, first hand testing of the algorithms which is more suitable for this popular data.

**Github**

### Non--Academic Projects

#### Personal Portfolio(React):

With emphasis on being familiar with java script, better user experience and educating self about React framework, a simple Personal Portfolio was built.

**Github**

#### Space-Dodge(Pygame):

A PHP based project, capable of providing as a educational platform for students, Teachers and Admin. Made with user specific roles this project provides features such as material upload, assignment creation, grading, submissions and user management.

**Github**

### **Movie Recommendation System:**

Taken as a stepping stone in ever green recommendation system, a deployable content based movie recommender system, with a simple and interactive user interface built using streamlit. This project Covers topics such as vectorization, similarity scores in N dim space enlightening, how a recommendation system works.

**Github**

### **Customer Feedback and Company sales Power BI Dashboard:**

An Interactive dashboard with various insights regarding sales, customer retention and employees represented in various metrics such as Included KPI, indicators, filters, gauze plots and etc.

**Github**

### **Weather app:**

Designed and developed a desktop weather application in Python using PyQt5 and the Weatherstack API. The application allows users to search for a city's current weather and view real-time data, including temperature, pressure, wind speed, humidity, and a corresponding weather icon.

**Github**

### **Ongoing Projects**

#### **Book Recommendation system:**

For further fulfilling the curiosity of recommendation system a book recommendation system that focuses on collaborative filtering is on building phase, with deployment to be handled.

#### **Benchamte(group):**

A educational AI web application designed as per the curriculum of Nepal till grade 10, that provides artificial intelligence as a learning assistant, friendly and easy interactions, gamification for keeping the students engaged.

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### **Certifications**

- freeCodeCamp - RESPONSIVE WEB DESIGN
- IBM – Enterprise Design Thinking Practitioner
- Kaggle – Python
- Kaggle - Intro to Machine Learning
- Kaggle - Pandas
- Kaggle - Intermediate Machine Learning