

# MIRAJ DEEP BHANDARI

an enthusiastic practitioner in the field of Artificial Intelligence



9844341574



mirajdeepbhandari30@gmail.com



kavresthali, kathmandu, Nepal



<https://www.linkedin.com/in/miraj-deep-bhandari-624bb0263/>



<https://github.com/mirajdeepbhandari>

## SUMMARY

I am Miraj Deep Bhandari, an enthusiastic practitioner in the field of Artificial Intelligence. I specialize in various aspects of AI, including **Machine Learning, Deep Learning, Exploratory Data Analysis, OpenCv and Natural Language Processing**. Through a blend of theoretical knowledge and hands-on experience, I have developed a strong command of advanced AI algorithms. In addition, I excel in **Java object-oriented programming** and have a solid grasp of a wide range of Python libraries, such as *Core Python, Object-Oriented Programming, Pandas, Numpy, Matplotlib, Seaborn, Plotly, Scikit-learn, BeautifulSoup, and NLTK*. Furthermore, I am skilled in both **front-end and back-end web development**, with a good understanding of **databases and web scraping techniques**.

## ACHIEVEMENTS

**Achieved a significant increase in algorithm accuracy, raising it from 78% to 90%, within a machine learning project.**

I optimized the model Performance through analysis, feature engineering, and selection techniques in the laptop price prediction project, resulting in a remarkable performance boost from 78% to 90%.

## SKILLS

- python
- Object Oriented Programming (Java)
- Machine Learning and Deep Learning
- Computer Vision (Open CV)

## EDUCATION

### Secondary Education

Green Lawns Academy / kathmandu

I have successfully completed my secondary education from Green Lawns Academy, achieving a **GPA of 3.95**

### Higher Secondary Education

Everest Innovative College / kathmandu

I have successfully completed my Higher secondary education from here, achieving a **GPA of 3.52**

### BSc (Hons) Computing

Islington college / kathmandu / October, 2022 - Present

I am currently pursuing a bachelor's degree from Islington College, which is affiliated with the London Metropolitan University.

## AWARDS

- Natural Language Processing (NLP)
- Exploratory data analysis (EDA)
- Data preprocessing, feature engineering, and Feature Selection
- Linear Algebra, Statistics and Probability
- Scikit Learn ,PyTorch,Tensorflow
- Numpy, Pandas
- Matplotlib, Seaborn, Plotly
- Web Scrapping
- MySQL
- nltk
- HTML / CSS / Javascript
- Bootstrap
- Streamlit

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## LANGUAGE

English	● ● ● ● ●
Nepali	● ● ● ● ●
Hindi	● ● ● ● ●

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## REFERENCES

### Ayush Adhikari

DeepMind Creations / CTO | Lead Data Scientist | Artificial Intelligence Consultant | Machine Learning | Computer Vision

[linkedin.com/in/aayush-adhikari-577546119](https://www.linkedin.com/in/aayush-adhikari-577546119)

[aceraayush@gmail.com](mailto:aceraayush@gmail.com)

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### AWS Cloud Quest: Cloud Practitioner (BADGE)

Amazon Web Services / 2023

I have earned the badge signifying a fundamental grasp of AWS Cloud concepts and basic solution building proficiency using AWS services. This achievement underscores my hands-on experience in areas such as compute,networking, databases, and security services.

## TRAINING/CERTIFICATION

### Artificial Intelligence Training

broadway infosys / 2023

I have undergone extensive AI training at Broadway InfoSys, where I gained in-depth knowledge across various areas *including Machine Learning, Deep Learning, OpenCV, and NLP*. I also successfully completed projects related to these courses, further solidifying my practical skills and understanding in these domains.

### Supervised Machine Learning: Regression and Classification

Stanford / DeepLearning.ai / Coursera / 2023

### Unsupervised Learning, Recommenders, Reinforcement Learning

Stanford / DeepLearning.ai / Coursera / 2023

### Advanced Learning Algorithms

Stanford / DeepLearning.ai / Coursera / 2023

### Python for Data Science, AI & Development

IBM / Coursera / 2023

### Crash Course on Python

Google / Coursera / 2023

### Supervised Machine Learning: Regression (with sklearn implementation)

IBM / Coursera / 2023

### Machine Learning with Scikit-Learn

Linkedin / 2023

### Applied Machine Learning: Feature Engineering

Linkedin / 2023

## **Applied Machine Learning: Foundations**

Linkedin / 2023

## **Object Oriented Programming in Java**

UC SanDeigo / Coursera / 2023

## **Java Programming: Solving Problems with Software**

Duke University / Coursera / 2023

## **Advance CSS**

Hacker Rank / 2023

## **PROJECTS**

### **Laptop Price Predecton Web Application (A Machine Learning: Regression Project) through Streamlit**

Developed a regression-based laptop price prediction system using comprehensive dataset, advanced data processing, and EDA. Enhanced accuracy through feature engineering, trained and fine-tuned model using scikit-learn. Created user-friendly web app with Streamlit for seamless model integration, offering innovative laptop price forecasting solution

<https://laptops-price-predict.streamlit.app/>

### **News Category Predecton Web Application (A Machine Learning : Classification Project) through Streamlit**

Created a Machine Learning-based news classification project focusing on predicting Setopati website news categories. Developed a comprehensive Web Application that accurately categorizes news articles. Employed "Beautiful Soup" for web scraping, "Pandas" and "NumPy" for preprocessing, and "Matplotlib" for visualization. Conducted text cleaning with "NLTK" to refine and normalize text data. Built a classification model using "scikit-learn" and integrated it into a user-friendly web app using "Streamlit," enabling real-time predictions for news categories based on user input.

<https://newsclassifierai.streamlit.app/>

### **Web Scraping (Setopati News Website) : Extracting, Organizing, Cleaning, and Analyzing News Data with Beautiful Soup, NLTK, Pandas, NumPy, and Matplotlib**

Extracted news data from Setopati website via web scraping. Utilized Beautiful Soup for extraction, Pandas/NumPy for data manipulation, Matplotlib for visualization. Cleaned data using NLTK, removed stopwords, and applied stemming. Constructed structured DataFrame. Optional export in CSV/Excel for analysis.

[https://mirajdeepbhandari.github.io/web\\_scraping\\_News/](https://mirajdeepbhandari.github.io/web_scraping_News/)

### **Web Scrapping (Worldometer page) : Extracting, Storing, Data Cleaning and Visualizing The Population Statistics and Storing Data in MySQL DataBase using Python**

Scraped worldometer for population data using Beautiful Soup. Filtered and exported via Python to CSV. Cleaned data in Pandas DataFrame. Visualized with Matplotlib and Plotly. Stored in MySQL using Python.

[https://mirajdeepbhandari.github.io/webscrapping\\_python/](https://mirajdeepbhandari.github.io/webscrapping_python/)

### **Development Of BANKCARDS (Debit and Credit Card Fully Functionality) In Java Object Oriented Programming**

Developed Java Bank Cards project with robust OOP foundation. Features comprehensive BankCard, CreditCard, and DebitCard Management System. Utilized inheritance, encapsulation, and polymorphism for efficient OOP implementation. GUI created using Java Swing and AWT for user-friendly interactions. Leveraged object casting and array lists for seamless data handling and storage. Enhanced user experience with intuitive layout and interactive elements.

<https://github.com/mirajdeepbhandari/javaBankCards>

### **Laptop Management System for Rental Shop (Buying ,Selling, Generating Invoices and Updating Stock of Laptops) File Handling Project In Python (No use of Libraries just from stratch)**

Developed a laptop rental shop program for inventory management and transactions. Reads laptop info from text file, updates based on orders and sales. Generates notes/invoices with laptop, customer/distributor info, date, time, total cost. Maintains real-time inventory updates, handles different transaction types. Streamlines business with accurate data, forecasts, and decision-making. User-friendly interface enhances efficiency, minimizes errors, ensuring top-notch customer service.

[https://github.com/mirajdeepbhandari/laptop\\_filehandle](https://github.com/mirajdeepbhandari/laptop_filehandle)

### **Fully Responsive E-Commerce Bonsai Selling Website (using only html,css and javascript)**

Created a visually appealing and user-friendly fully responsive e-commerce platform for bonsai plant sales, employing HTML5, CSS3, and JavaScript. Utilized Balsamiq for initial design planning, incorporated JavaScript for interactive features like shopping cart, form validation, and dark mode.

<https://mirajdeepbhandari.github.io/bonsaihub/>

### **Fully Responsive Dance website Landing page (Freelancing project)(responsive through css and bootstrap)**

Developed a responsive E-music Dance website landing page under freelance constraints, ensuring smooth user interaction across devices. Leveraged HTML, CSS, JavaScript, and Bootstrap for design. Collaborated closely with the client, integrating their feedback at every design stage. Pleased with the visually appealing and user-friendly final product, providing a seamless experience for visitors.

<https://mirajdeepbhandari.github.io/music/>