Biplov Belbase

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A computer engineering student at the Advanced College of Engineering affiliated with Tribhuvan University. Possess intermediate Python and python-based frameworks programming skills along with proficient English speaking and writing. Keen to pursue a career in Data Science and Deep Learning.

EDUCATION

Advanced College of Engineering and Management (BE), 2021 **–** Present
- Bachelor in Computer Engineering

Pinnacle College 2018 - 2020
- +2 Science
- Cumulative GPA: 3.72

PROJECTS

Comparative Model Analysis of Vegetable Price Forecasting Using LSTM and Transformer
- Led a group of three people
- Performed Data Preprocessing(data cleaning, data transformation)
- Built LSTM and Transformer models and performed hyper parameter tuning(learning rate, number of layers and optimizer)
- Compared the model performance using MSE (0.00246 for the LSTM model and 0.11394 for the Transformer model).

Image Caption Generator Using CNN and LSTM

- Developed using CNN for feature extraction and LSTM for caption generation.
- Achieved consistent BLEU scores, with BLEU-1 ranging from 0.526 to 0.528 and BLEU-2 from 0.299 to 0.30.

Spam Detection Using Naive Bayes Classifier

- Preprocessed text of spam dataset(Tokenization, Lemmatization, Pos tagging and Stop word Removal)

- Achieved accuracy of 95% using Naive Bayes Classification Algorithm

Heart Disease EDA

- Visualized data using Histogram, Pair plot and Heat map
- Identified outliers, distribution of data
- Decomposed the dataset using eigen decomposition, and found out eigenvalue and eigenvector
- Chi-Square test of attributes

Karobar: Ecommerce website using Django Web framework

- Karobar is a marketplace where seller can sell their product and buyer can add product to cart and buy the selected product
- Developed using HTML, CSS Bootstrap and Django.

WORK EXPERIENCE

Virtual Internship at Codsoft:

- Completed three AI projects (Image caption generator, Simple Chatbot and tic-tac-toe) within time of one month.

COURSE WORK

- Data Structures and Algorithms, Data Mining ,Artificial intelligence, Probability and Statistics , Numerical Methods

TECHNICAL SKILLS
- **Programming Language:** Python, C, C++, HTML, CSS
- **Framework and tools:** Pytorch, Tensorflow, Django, Pandas, Numpy, Matplotlib, Seaborn, NLTK, Skit-learn
- **Documentation and Presentation Tools:** Word , Powerpoint , Microsoft Excel, LaTeX

ACHIEVEMENT
- Received Regular IOE scholarship based on academic IOE rank
- Received full scholarship in High School

INTERESTS

- Hobbies include Writing, Reading Books ,Programming, Music, Chess and solving the Rubik's cube