Dipankar Atriya

Bachelor of Technology
Artifical Intelligence and Machine Learning
Guru Gobind Singh Indraprastha University EDC Delhi
Enrollment No: 09819011621

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GitHub
LeetCode

Education

•Bachelor of Technology in Artificial Intelligence and Machine Learning *2021-25*
UNIVERSITY SCHOOL OF AUTOMATION AND ROBOTICS Surajmal Vihar New Delhi CGPA: 8.0

•Intermediate *Year: 2020*
GSVGSBV No 1, Sarojini Nagar, Delhi Percentage:82.25

Personal Projects

• Sentiment Analysis Using Word2Vec and Machine Learning

Developed a sentiment analysis model to classify the sentiment of tweets

- Preprocessed a large dataset of tweets (1,600,000 records) and used Word2Vec embeddings to clean and prepare text data for analysis.
- Experimented with various machine learning algorithms such as Logistic Regression, Naive Bayes, and Random Forest to classify sentiments. To achive an accuracy of 83.73.
- Developed a Streamlit web application for real-time sentiment analysis.
- Technology Used: Python, NLTK, Scikit-learn,Gensim, Bootstrap.

•Book Recommender System

A book recommendation system to suggest book persolined to you.

- Utilized cosine similarity to recommend books based on user inputs, enhancing user experience.
- Implemented a Flask web application to provide users with personalized book recommendations.
- Technology Used: Pandas, NumPy , Pandas , Scikit-learn ,Flask.

•Object Recognition using Deep learning

Animal Classifier System Using Region Growing and Convolutional Neural Networks (CNN)

- Utilized region growing algorithm (from scratch) for effective segmentation and preprocessing of images, improving the accuracy of object detection
- Implemented a CNN model to classify objects within segmented regions, achieving an impressive accuracy of 91.57.
- Technology Used : Python , OpenCV, TensorFlow/Keras, NumPy

Experience

•Guru Gobind Singh Indraprastha University *Aug - Sept 2023*
ML intern Offline

- Developed an underwater image enhancement system using PyTorch deep learning techniques.
- Implemented state-of-the-art architectures like U-Net, leveraging PyTorch Lightning for streamlined training.
- Integrated user-friendly Flask/Django web interface for real-time image enhancement.
- Deployed on cloud platforms for accessibility, with security features for user privacy.

Technical Skills and Interests

Languages: C/C++, Python, Javascript, JAVA, HTML+CSS
Libraries : C++, OpenCV, Sklearn, Numpy, Pandas, Kearas, NLTK, TansorFlow, Matplotlib
Tools: Jupyter Notebook, PyCharm, VScode, Git, Github
Cloud/Databases:MongoDb, Firebase, Relational Database(mySql)

Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Web Design and Development,Machine learning, Deep learning , Computer vision , Nautral languages processing.
Achievement Solved 200plus DSA question across all websites, flipkart GRiD level - 2 hackthon

Positions of Responsibility

–**Science Club Treasurer** USAR, delhi *Sept 2023 - present*
∗ Managed finances for the Science Club budget planning and expense tracking.

–**National Cadet Corps (NCC) Cadet** USAR, delhi *feb 2023 - present*
∗ Participated in various NCC activities, such as training sessions and community service projects.