Shantnu Kumar

Bachelor of Technology
Artifical Intelligence and Machine Learning
Guru Gobind Singh Indraprastha University EDC Delhi
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EDUCATION

•**Bachelor of Technology in Artificial Intelligence and Machine Learning** *2021-25*
UNIVERSITY SCHOOL OF AUTOMATION AND ROBOTICS Surajmal Vihar New Delhi CGPA: 9.107

•**Intermediate** *Year: 2020*
Rajkiya Pratibha Vikas Vidyalaya, Yamuna vihar, Delhi Percentage: 94.25 %

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 %. and developed it on Streamlit web application.
– Technology Used: Python, NLTK, Scikit-learn, Gensim, streamlit.

• **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.

• **Emotion Detection Using CNN and FER-2013 Dataset**

A Real-time Emotion Detection software in Videos using Deep learning.

– Addressed class imbalance in the FER-2013 dataset by employing image augmentation and class weights, improving model robustness.
– Deployed the model for real-time emotion detection in live video streams using Gradio and OpenCV, showcasing emotion labels dynamically on-screen.
– Technology Used :Python, TensorFlow, Keras, ResNet50v2, VGG16, OpenCV, Gradio.

EXPERIENCE

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

– Developed an automated attendance system using face recognition technology to accurately identify and record student attendance.
– Used face_recognition for accurate face encoding and recognition, identifying registered users.
– Integrated Firebase for real-time database management, automating the process of marking attendance and updating the database with timestamps.
– Created a user-friendly web interface using Flask for real-time attendance monitoring and reporting.

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 200+ Dsa question across all platforms, 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.