PUSHKAR GHOSH

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https://github.com/PushkarGhosh21

Education

University of Engineering and Management,Kolkata	**Aug 2022 – Present**
Bachelor of Technology in Computer Science Engineering	*CGPA:9.15 (upto 6th sem)*

Garden High School,Kolkata	**April 2021- March 2022**
CISCE (12th) - Science	*Percentage: 92%*

Garden High School,Kolkata	**April 2019 - March 2020**
CISCE (10th) - Science	*Percentage: 93.8%*

Relevant Coursework

- Data Structures & Algorithm
- Object Oriented Programming
- Database Management System
- Software Engineering

Projects

Amazon Music Review Sentiment Analyzer | *Python, NLP, Scikit-learn*
- Developed an end-to-end sentiment analysis pipeline using NLP techniques to classify 5,000+ Amazon Music product reviews into positive, negative, and neutral categories.
- Applied machine learning models (Naive Bayes, Logistic Regression) after text preprocessing (tokenization, stop word removal), achieving 85% classification accuracy.
- Created a Linux virtual machine to run on Google Cloud so that the program is able to run everyday from the cloud.
- Enabled customer trend insights for product teams, improving potential product recommendation accuracy and marketing alignment based on review sentiment.

Facial Recognition System | *Python, OpenCV, dlib*
- Built an offline facial recognition system using OpenCV and dlib to detect and identify individuals from a database of 100+ images with 92% matching accuracy.
- Used face encoding and comparison methods to match input images in real time, with an average detection time of under 250 milliseconds per image.
- Designed for secure applications like access control and attendance tracking, enhancing privacy with 100% offline operation.

Image Search Engine | *HTML, CSS, JavaScript, Unsplash API*
- Engineered an image retrieval system utilizing JavaScript and Unsplash API, achieving sub-second (750ms) search latency for 95% of user queries through optimized API calls and caching mechanisms.
- Designed a responsive front-end interface with HTML and CSS, ensuring smooth user experience across devices.
- Fetched and rendered images with search latency under 1 second, enhancing user interaction and API integration skills.

Achievements

- Secured 2nd Runner-up position in District-Level Science Model Competition (2023), showcasing innovation and practical application of scientific principles.
- Published a review paper titled "Application of AI in the Automobile Industry" in the book 'Technology of Tomorrow', contributing to emerging tech literature.
- Achieved 2nd Runner-up in Inter-College Innovative Project Competition (2022), demonstrating creativity in tech-driven solutions.
- Awarded Academic Excellence Rank Card in both 1st and 2nd year, ranking in the top 10% of students for outstanding academic performance.

Technical Skills

Languages: Java, C, Python, HTML/CSS, SQL
Developer Tools: Visual Studio Code, Google Cloud Platform
Technologies/Frameworks: GitHub,Scikit-learn, OpenCV, Pandas, NumPy