Anushka Gupta

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Summary

Motivated Computer Science student with hands-on experience in building scalable full-stack applications with integrated machine learning models. Looking to leverage my skills and passion for innovation to contribute to impactful projects.

Education

JSS Academy of Technical Education, Noida | BTech in CSE-DS *2021 - 2025*
CGPA: 7.3

Work Experience

HCL Technologies (Intern) : Leave Tracking & Reporting System *October 24 - January 25*

- Created MVP (minimum viable product) for a **Leave Tracking System** to manage employee leave records, completing 100% of the core functionality.
- Designed the frontend using Next.js and React, achieving a consistent page load time of under 2 seconds through server-side rendering and optimized component design.
- Migrated a SQL database of 100+ employee records to MongoDB, improving scalability and query performance
- Expected to reduce scheduling and absenteeism reports errors by 15% once fully deployed, contributing to better workforce management.

Projects

Critiscan : *using Python, TensorFlow, OpenCV, PaddleOCR, EasyOCR, PyTesseract, Azure Vision AI, TinyBERT* *Github*

- Collaborated on developing a freshness detection and OCR model that reached 98. 25% precision in classifying fruits as Good, Bad, or Mixed.
- Improved product text extraction consistency across more than 100 images by integrating a multi-model OCR pipeline, combining results from PaddleOCR, EasyOCR, PyTesseract, and Azure Vision AI.
- Enhanced text readability by consolidating extracted text with 90% accuracy of overlap, elimination of duplication, and meaningful summaries using TinyBERT.
- Implemented Dockerized Flask APIs for real-time product analysis, optimized for diverse documents, supporting grocery and retail applications.

Priority Text: *using Python, scikit-learn, Flask, NLTK, TF-IDF Vectorization, Hugging Face T5-small* *Github*

- Developed a dual purpose API that combines spam classification with 99% precision and 98% precision and text summarization capabilities.
- Preprocessed a dataset of 5,572 rows, applying natural language processing techniques such as stemming and tokenization to enhance model performance.
- Integrated TF-IDF feature extraction to improve spam detection accuracy by 2% and implemented Hugging Face T5-small to generate concise summaries of text input.
- Launched the API on Render, enabling developers to access both spam detection and summarization functionalities with a response time of less than 2 seconds.

Yapper- A blogging website: *using Node.js, Express.js, EJS, and MongoDB, Bootstrap* *Github*

- Built a full-stack blogging platform with user authentication, authorization, and secure session management, achieving efficient load times under 2 seconds.
- Personalized user experiences with profile functionality, managed data using MongoDB, and hosted the application on Render for scalable access.

Skills

Languages: Core Java, JavaScript, Python, HTML, CSS
Frameworks and Libraries: Express.js, Flask, Bootstrap
Technologies: Next.js, Node.js, RESTful APIs
Databases: MySQL, MongoDB
DevOps and Deployment: Docker, AWS, Render, Vercel, Azure
Concepts: Data Structures, Algorithms, Object-Oriented Programming (OOP)

Achievements and Contributions

First Runner-Up, Hire-a-thon by Geek Room in association with Involead
Semi-finalist, Flipkart Robotics Challenge 2024
Open Source Contributor at **GirlScript Summer of Code- Extd** and **Hacktoberfest**