

## ANURAG NAGVANSHI

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### EDUCATION

B.TECH (Electronics and Communication Engineering)	2020-2024	Pranveer Singh Institute of Technology, Kanpur	7.5 CGPA (till 7 <sup>th</sup> sem)
AISSCE/CBSE (Class XII)	2019-2020	Kendriya Vidyalaya No. 1, AFS Kanpur	85.2 %
AISCE/CBSE (Class X)	2017-2018	Kendriya Vidyalaya No. 1, AFS Kanpur	82 %

### ACADEMIC PROJECT

#### Text to Image Generator using Python | Generative AI

- Developed a Python script to generate images based on user input using OpenAI's API.
- Enhanced the spelling correction system by integrating TensorFlow for part-of-speech tagging, increasing accuracy in natural language processing tasks.
- Build by using Python, OpenAI's API and request library.
- Automated the entire process from user input to image display, ensuring a smooth and efficient workflow.

#### Spell Corrector | Data Analysis

- Implemented a spelling correction system utilizing the Viterbi algorithm, enhancing efficiency by optimizing part-of-speech tagging tasks in natural language processing.
- Leveraged NLTK for accessing corpora and trained models, significantly improving the accuracy of spelling correction.
- Utilized dynamic programming techniques to implement the edit distance algorithm, enabling precise identification of misspelled words and enhancing correction accuracy.
- Integrated logging functionality for tracking program execution, aiding debugging and optimizing efforts.
- Focused on ongoing data analysis to enhance spelling correction accuracy while maintaining efficient processing times

#### Image to Pencil Sketch | Machine Learning

- Developed an image processing pipeline using TensorFlow and OpenCV to convert images to pencil sketches, incorporating deep learning for enhanced edge detection.
- Apply grayscale conversion to the input image using OpenCV.
- Invert the grayscale image and blend with edge-detected image for sketch effect.
- Use OpenCV to process and convert images in real-time through a Python script.

#### Library Management System with User authentication

- To develop a comprehensive Library Management System which also includes user authentication to manage access and roles effectively.
- Users can register and log in to the system with a username and password.
- Command-line interface with intuitive prompts for user interaction. Clear and concise messages to guide users through various operations.
- Applied OOPs principles such as classes, inheritance, encapsulation, and polymorphism.

### TECHNICAL SKILLS

Python, HTML, CSS, Javascript	TensorFlow, Keras, Machine Learning, Generative AI, Django, Streamlit, DBMS, SQL, Object oriented programming, MongoDB	Git ,VS Code,Github Communication skills, Problem Solving, MS Power Point
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