VIVEK TIWARI

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COMPUTER ENGINEER

My name is Vivek Tiwari. I am a passionate Python programmer dedicated to solving real-world problems with the latest tools and technologies. I am well versed with the technologies involved in building machine learning applications and I am expanding my expertise in the field of Artificial Intelligence. I aspire to join a team of like-minded individuals where our visions align. In addition to my technical skills, I am a strong decision-maker and an effective communicator, capable of leading a team to achieve our collective goals.

SKILLS

Python Programming	Deep Learning	Flask Framework
Machine Learning	Natural Language Processing	Transformers
Competitive Programming	Prompt Engineering	Neural Networks
Java Programming	C / C++ Programming	SQL Programming
Microsoft Office	HTML / CSS	Communication

EDUCATION

Institute of Advanced Research, Gandhinagar (2021 - Present)
Bachelor of Technology in Computer Engineering (Artificial Intelligence) - **(9.16 CGPA)**

Hebron Higher Secondary School, Maninagar (2019 - 2021)
Class 12 (Mathematics) - **(84.92 %)**

Divine Public School (2007 - 2019)
Class 10 - **(89.00 %)**

PROJECTS

Aquaminder Application (Flutter, Firebase)
A Mobile Application for an IoT Device

Currently working on an application for an IoT device that detects leakage through the pipes to which it is attached and also offers the feature to book a plumber through the application itself. The front end is being developed using the Flutter framework, and the data provided by the IoT device is handled by Firebase, which will be used for the backend.

LikhAI (HTML, CSS, JavaScript, Transformers, Flask, Python)
Handwritten Text Recongition and Processing Tool

Developed a web-based OCR tool that takes images containing handwritten content as input and converts that into digital text. It also offers three text processing features for converted text: summarization, paraphrasing, and translation. Used Pytesseract OCR Engine for OCR and Hugging Face Transformers for the text processing features. The backend was developed on the Flask framework that routes the Python modules to the frontend modules.

Product Health Rater (HTML, CSS, JavaScript, Machine Learning, Flask)
Web-based Rating Tool for Consumables

Developed a web-based health rating system that takes label value input mentioned on the consumable product from the user and rates it between 0 and 5 stars. It also advises users based on the ratings generated regarding consumption of that product. HTML, CSS, and JavaScript are used to develop the frontend webpages, and Flask is used to integrate the machine learning model trained on product data to predict the ratings to the front end.

Farmify (Machine Learning, Image Processing)
ML-based Crop Disease Detector

Developed a machine learning model that takes a crop leaf image as input and examines the image to detect disease the crop might have. Used vision libraries of Python, convolutional neural networks, and classification algorithms to detect the same.

Harvestify (HTML, CSS, Machine Learning, Flask)
ML-based Crop Recommendation System

Developed a web-based crop recommendation system that takes soil content values as input from the user and based on that recommends the best crop that can be cultivated for better yields. Used Random Forest classifier for crop recommendation and Flask framework to serve ML model on the webpage designed using HTML and CSS.

URL Shortener (HTML, CSS, SQLite, Flask)
A Tool to Shorten URLs

Developed a simple web-based tool that shortens the long URLs taken as input and also stores the mapping of long and short URLs in a database. Used Flask to integrate the database file, Python code to shorten the URL, and render HTML files.

ACHIEVEMENTS

1st Prize in Annual Research & Innovation Conclave, 2024
Received 1st Prize in ARIC-2024 held at Institute of Advanced Research, Gandhinagar

Academic Excellence Award (2023 - 2024)
Received Academic Excellence award for maintaining highest CGPA during academic session 2023-2024

Student of The Year (2022 - 2023)
Received Student of The Year award for academic session 2022-2023
