ANSHU SHARMA

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SUMMARY

I'm a passionate AI enthusiast pursuing a Computer Science and AI degree. My focus is on harnessing the power of machine learning to develop innovative solutions. I'm eager to apply my skills in a dynamic environment and contribute to groundbreaking projects.

PROJECTS

1. Insu Scan Pro | *Python, FastAPI, Streamlit, XGBoost, scikit-learn, PyMuPDF, pdf2image*

An AI-powered diagnostic tool for predicting diabetes and summarizing patient reports.

- Leveraged Machine Learning models (XGBoost, scikit-learn) to detect diabetes and classify it as Type 1 or Type 2 with over 98% accuracy.
- Designed a FastAPI backend and Streamlit frontend to provide users with real-time predictions and report summaries.
- Extracted structured data from unstructured PDF/DOCX medical reports using PyMuPDF, pdf2image, and python-docx.
- Improved user experience with Streamlit Lottie animations and clean summary formatting.

2. Sea Beneath – Underwater Object Detection | *Python, YOLOv4, OpenCV*

A deep learning-based system for detecting underwater objects in real-time.

- Developed a custom object detection model using YOLOv4, trained on underwater datasets containing labeled marine life, submarines, and other objects.
- Applied advanced Deep Learning techniques to handle complex underwater conditions like low visibility and noise.
- Evaluated the model using precision, recall, and mean Average Precision (mAP) metrics.
- Explored real-world deployment scenarios using drones and autonomous underwater vehicles (AUVs).

3. AI-Powered Web Chatbot | *Python, TensorFlow, NLTK, NumPy, React, HTML/CSS/JS*

An interactive chatbot capable of understanding and responding in natural language.

- Used Machine Learning with TensorFlow and NLP techniques with NLTK for intent detection and contextual response generation.
- Designed and implemented a React-based frontend for smooth user interaction and integrated it with the Python backend.
- Processed and trained on custom conversational datasets to achieve high accuracy in understanding varied user queries.
- Focused on scalable backend architecture and intuitive UI design for optimal user experience.

4. Portfolio Website | *React, Tailwind CSS, Three.js*

Built a personal portfolio with 3D animations using Three.js, showcasing projects and skills.

- Used React for structure and Tailwind CSS for responsive design.
- Integrated interactive visuals to enhance user experience and presentation.
- **link**: https://sharmanshu5.github.io/Portfolio/

4. Online Voting System | React, JavaScript

A simple, secure online voting interface developed as a learning project.

- Built the UI using React with dynamic component rendering and state management.
- Focused on developing core logic, input validation, and a clean user interface to simulate a real-world voting experience.

EDUCATION

Course	Institute	Board	Year	Percentage
B.Tech (CS with AI)	ABES institute of technology	AKTU	Persuing	73.33
12 grade	Arpan Public School	CBSC	2021	83.33
10 grade	Arpan Public School	CBSC	2019	84.44

TECHNICAL SKILLS

- Python
- Generative AI
- Deep Learning
- Artificial Intelligence
- Machine Learning
- Prompt Engineering
- OOPS
- MySQL
- HTML, CSS, JavaScript, Streamlit