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

AI-Powered Web-Based Chatbot

Technologies:

- Python (TensorFlow, NLTK, NumPy)
- HTML, CSS, JavaScript, React

Key Achievements:

- Developed an advanced chatbot capable of understanding and responding to user inquiries in a natural language format.
- Employed TensorFlow for machine learning model development, NLTK for text processing, and NumPy for numerical computations.
- Created a user-friendly frontend interface utilizing HTML, CSS, and React to facilitate seamless interactions.
- Successfully trained and deployed the chatbot model, achieving high accuracy rates in recognizing user intent and delivering relevant information.

Responsibilities:

- Designed and implemented the chatbot's architecture, encompassing data preprocessing, model training, and response generation.
- Integrated natural language processing techniques to enhance the chatbot's comprehension of language and context.
- Developed a scalable and efficient backend infrastructure to manage real-time user interactions.
- Crafted an intuitive and visually appealing frontend interface using React.

Skills Demonstrated

- Machine Learning (TensorFlow)
- Natural Language Processing (NLTK)
- Python Programming
- Web Development (HTML, CSS, JavaScript, React)
- Problem-Solving and Critical Thinking

Sea beneath objects detection

Jan 2024 - Present

- Objective:
  To develop a robust object detection model capable of accurately identifying and locating various objects beneath the sea surface using Python, deep learning techniques, and the YOLOv4 architecture. The system aims to contribute to improved maximum safety, environmental monitoring, and resource management by providing real-time detection and classification of underwater objects.
- Methodology:
  1. Dataset Creation or Utilization: Curate or utilize an existing dataset containing images or videos of underwater environments with labelled objects of interest (e.g., ships, submarines, marine life, underwater structures).
  2. Model Development: Employ YOLOv4, a state-of-the-art object detection algorithm, to create a deep learning model tailored for underwater object detection.
  3. Model Training: Train the model on the prepared dataset to optimize its ability to accurately identify and localize target objects.
  4. Performance Evaluation: Assess the model's performance using relevant metrics such as precision, recall, and mean Average Precision (mAP).
  5. Deployment: Explore potential deployment platforms (e.g., drones, autonomous underwater vehicles) for real-time object detection .

Online voting system Its a react based mini project made for learning purpose

Nov 2021 - Present

EDUCATION

Bachelor of Science in Computer Science and AI

ABES institute of Technology

- I am pursuing my Engineering in computer science and AI

TECHNICAL SKILLS

- Python
- HTML, CSS, JavaScript
- Java
- OOPS
- AI and ML
- C programming