Yash Nigam

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Education

Bennett University   2020 - 2024
Bachelor of Technology in Computer Science Engineering   ***Current CGPA: 8.2***
Major in Artificial Intelligence
Relevant Coursework: OOPs, Data Structures, Design And Analysis Of Algorithms, Computer Networks, DBMS, GenAI, Operating Systems, Artificial Intelligence And Machine Learning, Digital Design, Competitive Programming, Deep Learning, Computer Vision, NLP, Agile Software Development, Entrepreneurship

Projects

QueryXpertAI | *Python, Transformers, Langchain, Hugging Face, PyMuPDF, ChromaDB, Neural Networks*

- Developed an supervised-fine-tuning (SFT) Transformer-based Language AI model to analyze user-uploaded PDFs, extracting text, generating vector embeddings and provide context-based answers with page references.
- To create a system that simplifies the process of extracting and understanding information from complex documents, improving accessibility and efficiency for users needing specific information from large PDF files.
- Successfully built an advanced text retrieval system that reduced manual search time by 80% and increased question-answering accuracy by 90%, providing precise and contextually relevant answers to user queries.

RoadWatchAI | *Python, YOLOv8, PyTorch, OpenCV, NumPy, Machine Learning, Computer Vision, Neural Networks*

- Developed an AI system utilizing DeepSort, OpenCV, YOLOv8, and PyTorch to detect, track, and classify vehicles on roads and highways, achieving over 90% accuracy.
- Realized a substantial reduction in manual labor by 80% through automated vehicle counting and type identification, improving traffic management efficiency.
- Enabled real-time monitoring for rapid response to incidents, resulting in a 70% decrease in average incident resolution time and a 60% reduction in peak-hour traffic congestion.

FashionGAN | *Python, GAN Models, TensorFlow, Pillow, Artificial Neural Networks, Deep Learning, Gradio*

- Addresses the high demand for diverse and quickly produced dress designs in the online fashion industry, streamlining the creative process and offering customized options to users.
- Generative adversarial network models like CycleGAN and StarGAN, PyTorch, Akiwi50, and RESNET to create custom dress designs based on user input, with Gradio for user interface implementation.
- Provides a wide range of customized dress options, enhancing design efficiency by 26%, resulting in increased satisfaction among users and 17% reduced design refining time.

Skills & Certifications

Languages & Technologies: Python, Java, SQL, JavaScript, NoSQL, CI/CD, Blockchain, Web3, AWS, RESTful API Docker, Kubernetes, Tableau, HTML, CSS, Linux, Git & GitHub

Libraries/Frameworks & Tools: TensorFlow, OpenCV, Pandas, CNN, NLTK, MERN Stack, JavaFx

Soft Skills: Teamwork, Adaptability, Problem-Solving, Analytical Thinking, Communication, Critical Thinking, Project Management, Data Analysis

Certifications: DeepLearning.AI - Natural Language Processing | University of California - Graph Analytics for Big Data | Nvidia - Fundamentals of Accelerated Computing with CUDA Python | Nvidia - Fundamentals of Deep Learning | IBM AI Enterprise Workflow | Google Data Analytics Specialization | University of Toronto - Self-Driving Cars | University of Colorado - Secure Software Design

Leadership and Volunteering

Indian Blockchain Fraternity, BU   Sept 2021 - Sept 2022
Chief Strategist: Developed a roadmap from inception to execution with strategic planning and mission alignment, educating students and club members about Web3 and blockchain technology, coordinating events, challenges and workshops with leading blockchain companies like Tezoz, actively promoting the technology, and fostering a vibrant community.

Bennett Undergraduate Research Society   Oct 2021 - Sept 2022
Researcher: Delved into IoT technologies with a particular emphasis on blockchain, culminating in the creation of a thorough plan. This involved conducting a comprehensive literature review, pinpointing existing gaps in the field, and crafting an in-depth paper elucidating the findings.

Computer Society of India, BU   Jun 2021 - Oct 2021
Researcher: Aimed to identify knowledge gaps in emerging cyber-attacks, their evolution, and mitigation measures, including cybercrime laws and technologies. A research plan was developed to communicate findings, fostering intellectual stimulation and enhancing the research process.

Achievements & Extra - Curricular Activities

- 1st runner-up in Hackathon conducted by CSIT BU.
- Participated in 30 days of Google Cloud.
- Established a cryptocurrency exchange startup as a capstone project.