Alsafa Neha

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SUMMARY

Passionate and results-oriented tech enthusiast with a strong foundation. Driven by innovation, problem-solving, and a commitment to continuous learning, with hands-on experience. Eager to contribute to impactful projects and thrive in fast-paced, cutting-edge environments. Known for adaptability, collaboration, and a proactive approach to challenges in the tech field.

EXPERIENCE

Data analysis intern

Ramkrishna Forgings limited **March 2024 - September 2024, Jamshedpur**

- Contributed to streamlining material flow and inventory management, resulting in more precise demand forecasting and reduced wastage.
- Applied statistical techniques and data visualization tools to identify inefficiencies, bottlenecks, and areas for process optimization.
- Collaborated with the production and planning teams to design data-driven solutions under the mentorship of senior analysts, improving overall decision-making processes.

Blood Donation Management

Chaitanya Blood Bank **May 2023 - July 2023, Vijaywada,Andhra Pradesh**

- Spreading Awareness Regrading Blood Donation: This includes going and to local people and letting them know the importance of blood donation by conducting Blood Campaigns.
- Build A Website for The Blood Bank: This includes building a basic website for the blood bank so that people can know about the blood bank and contact the bank easily
- Coordinated logistics for blood drive campaigns that led to a 25% increase in donor turnout by streamlining volunteer engagement, optimizing donation schedules, and utilizing data analysis tools to target potential donors effectively.

Computer Vision Intern

AI Research Center **April 2022 - June 2022, Woxsen University, Hyderabad**

- Engineered an AI-driven facial recognition system leveraging OpenCV, achieving good accuracy in real-time person identification, enhancing interactive capabilities of the Disha robot with personalized greetings and accurate query responses.
- Developed and deployed a NLP chatbot, integrated with OpenCV for enhanced conversational AI.
- Designed and implemented a ML model for object detection using TensorFlow and OpenCV, for identifying and classifying various objects within live video feeds.

PROJECTS

Fake Review Detection

- Engineered a machine learning model that achieved in detecting fake reviews, utilizing advanced natural language processing features and comprehensive data cleaning techniques.
- Scraped and preprocessed large datasets of Amazon reviews, implemented natural language processing techniques for feature extraction, and achieved model accuracy in detecting fake reviews through hyperparameter tuning and cross-validation.

T5 and Bart Module

- The project involved fine-tuning these pre-trained models for applications like text summarization, translation, and sentiment analysis. Showcased expertise in Python, deep learning, and transformer based architectures, contributing to the enhancement of NLP capabilities through LLMs.
- Integrated T5 and BART models into a comprehensive NLP pipeline for task performance including text summarization and sentiment analysis, while ensuring seamless deployment using cutting-edge machine learning frameworks.

Lincense Plate Detection

- Engineered a real-time license plate detection system using YOLOv5 small model, achieving great accuracy with a custom dataset, and implemented OCR for seamless recognition and data extraction.
- Constructed a custom dataset tailored for a license plate detection project, enhancing model precision and expediting OCR processing to achieve improved data recognition accuracy.

Hate Speech Detection

- Developed a Hate Speech Detection system, to achieve robust performance by leveraging TensorFlow, NLTK, and other advanced natural language processing libraries.
- Implemented state-of-the-art deep learning architectures, including BERT, ViLBERT, through TensorFlow, and fine-tuned models for hate speech classification.
- Optimized machine learning algorithms using a labeled dataset of over 50,000 text samples, achieving good scores for hate speech detection tasks, and significantly improving model precision and recall.

EDUCATION

Bachelor Of Technology, International Exchange Student

Johannes Kepler University • Linz, Austria • 2024

- Completed 6th semester as part of an international exchange program, gaining diverse academic and cultural insights.
- Developed cross-cultural communication and adaptability skills in a global academic setting.

Bachelor Of Technology

Woxsen University • Hyderabad, Telangana • 2025

INVOLVEMENT

Patent

March 2024 - March 2024

- The present disclosure pertains to the field of sports entertainment technology, specifically addressing real-time three-dimensional projection of live matches conducted across multiple grounds. The system and method focus on leveraging mobility sensor-embedded tracksuits worn by players to capture and transmit dynamic movement and positional data. The innovation extends to the integration of advanced technologies, including but not limited to field cameras, blockchain, and wheel robots, to enhance the accuracy and immersive nature of the three-dimensional projection. This invention finds application in sports broadcasting, providing an interactive and visually engaging experience for spectators by projecting live matches in three dimensions across diverse playing fields.

SKILLS

Technical Skills: Python , Java, Programming, Analytic, Visualization, Machine Learning