AARYA PABHA

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EDUCATION

INDIANA UNIVERSITY BLOOMINGTON   Bloomington, IN
MS in Data Science
   Major in Applied Data Science

VELLORE INSTITUE OF TECHNOLOGY   Chennai, India
Bachelor of Technology, Computer Science and Engineering (GPA: 3.5)   Sept 2020 - May 2024

WORK EXPERIENCE

Wipro Limited   Hyderabad, India
Data Science Intern   May 2023 - July 2023
- Collaborated with senior data scientists to fine-tune deep learning models for image generation, achieving a 30% reduction in training time and improving efficiency.
- Explored the application of transfer learning techniques on stable diffusion, resulting in a 20% improvement in image generation accuracy for on-demand user queries.
- Pioneered additional automation layer where the text model intelligently prompts the image model, streamlining user query understanding and response generation

UNIVERSITY PROJECTS

Wildfire Detection using Vision Transformers   Jan 2024
- Preprocessed and cleaned a dataset of 2,700 fire and non-fire images, ensuring data quality and consistency for robust model training using techniques like image augmentation to increase model generalizability.
- Developed vision transformer model that achieved 97.80% accuracy in fire detection, surpassing the current published model on this dataset by 2.14%.
- Implemented a cascading multi-class classification model that achieved an accuracy of 88.51%.

Online Retailers Web Mining and Aspect-Based Sentiment Analysis   Jan 2023
- Communicated with cross-functional teams to integrate a web scraping model with existing analytics tools, increasing overall productivity by 40%.
- Designed advanced spam filtering techniques to improve dataset quality, reducing false positives by 20% and increasing overall data reliability.
- Utilized sentiment analysis to gain insights into customer sentiment towards products from a compiled dataset of reviews, enabling data-driven product development decisions.

ACTIVITIES

ZERO BUGS CLUB   Chennai, India
Vice President   Apr 2022 - May 2023
- Coordinated logistics and marketing efforts for two successful technical events, resulting in a 50% increase in attendance compared to previous events, with over 600 participants engaged.
- Applied innovative event format changes based on participant feedback, leading to a 15% increase in overall satisfaction rates and positive feedback from industry leaders.
- Managed preparations for a 36-hour hackathon scheduled to take place in March 2023, ensuring seamless execution and optimal participant engagement

ADDITIONAL

Skills: Machine Learning, Deep Learning, Data Analytics, Python, Excel, SQL, Tableau, SSIS, Data Wrangling, Java, C, C++, HTML & CSS, JavaScript
Languages: English, Hindi
Certifications: Machine Learning A-Z™: Python & R in Data Science (Udemy, 2023), Deep Learning A-Z™: Hands-On Artificial Neural Networks (Udemy, 2023), Data Analysis Using Python (IBM, 2022), The Joy of Computing using Python (NPTEL, 2022), Pandas (Kaggle, 2022), Python (Kaggle, 2022), Data Visualization (Kaggle, 2022)