Teja Kolla

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EDUCATION

Manav Rachna University Faridabad, India

Bachelor of Technology (Hons.), Computer Science and Technology with specialization in Data Science and Machine Learning

GPA: 8.72/10 2019-2023

(President of the DSAC Club, Student Coordinator of Research Cluster, IEEE Student Member)

Relevant Coursework: Python Programming, Data Structures and Algorithms, Supervised Learning, Unsupervised Learning & Neural Networks, Database Management System, Computer Architecture & Organization, Advanced Neural Networks, Natural Language Processing, Computer Vision, Big Data

WORK EXPERIENCE

A.I.W Works Pvt. Ltd. Gurugram, India

Vice President January 2023 – Present

- Automated the entire ecosystem for financial institutions, establishing a seamless and end-to-end digitization framework.
- Involved in a POC in which we tried to achieve event-based invocation of the ERC20 smart contract to disburse payments.
- Effectively led a team of 22 individuals, demonstrating strong leadership and strategic management skills to drive the team toward achieving organizational goals.
- Oversaw cross-functional teams, ensuring seamless coordination between departments.
- Developed and nurtured key client relationships, fostering long-term partnerships. Implemented data-driven marketing campaigns, leveraging market trends to enhance brand visibility

A.I.W Works Pvt. Ltd. Gurugram, India

Blockchain Developer November 2021 – December 2022

- Designed and implemented the blockchain-powered Decentralized applications.
- Created an ERC- 20 token on the polygon (previously matic).
- Implemented blockchain-based ERC-721 NFT Bots for authentication and specific role assignment for the users.
- Performed essential testing procedures to ensure the robust functionality and security of blockchain components, contributing to the overall quality assurance of the project.
- Ensured smooth integration between frontend and backend components, optimizing system performance and enhancing overall user experience.

ACADEMIC PROJECTS

Image Captioning with Visual Attention

- Implemented a robust deep-learning model for image captioning. Utilized visual attention mechanisms to improve the model's captioning accuracy.
- Integrated CNN architectures to effectively extract features from input images. Employed sequential models for generating coherent and contextually relevant captions.
- Contributed to enhancing the overall user experience by providing detailed and accurate image descriptions.

Neural Machine Translation

- Developed and implemented a Neural Machine Translation model utilizing a sequence-to-sequence transformer.
- Achieved accurate and nuanced Portuguese-to-English translations, demonstrating proficiency in leveraging cutting-edge transformer architectures for language processing.
- Demonstrated proficiency in both convolutional and sequential neural network architectures, contributing to advancements in language translation technologies.

Breast Cancer Analysis

- Spearheaded a breast cancer analysis project leveraging machine learning techniques to enhance diagnostic accuracy.
- Developed and implemented a predictive model using a diverse dataset, combining features such as tumor size, shape, and texture.

- Led a project focused on integrating advanced imaging technologies with deep learning algorithms for breast cancer analysis.

Lane Line Detection

- Developed a project utilizing computer vision and machine learning techniques to detect and display accurate lane lines within the designated region of interest.
- Successfully identified the region of interest, providing precise visualization of the actual lane lines.
- Leveraged a sequence-to-sequence transformer model to achieve accurate and efficient language conversion.

Digital Asset Marketplace

- Orchestrated the creation of a cutting-edge NFT marketplace on the Polygon network.
- Streamlined user transactions and fostered a dynamic platform for buying and selling digital assets.
- Optimized efficiency and reduced transaction costs, enhancing the overall user experience.

AWARDS AND ACHIEVEMENTS

- Received Outstanding Achievers Award in recognition of outstanding achievements in research in the graduating class of 2109-2023
- Secured Silver medal in AGRANI 2022 organized by the Network of Organizations for Science & Technology Communication (NOSTC).
- Winner of Innoskill 2022 organized by Manav Rachna Educational Institutions.

PUBLICATION

- Teja Kolla, Harsh Kumar Vashisth, Manpreet Kaur. Attention Unveiled: Revolutionizing Image Captioning through Visual Attention. In GCITC 2023
- Siddhartha Das Gupta, Teja Kolla, Ravi Yadav, Mamta Arora, Mrinal Pandey. Forecasting Cryptocurrency Prices using Sequential and Time Series Models. In ICIMMI 2022
- Teja Kolla, Siddhartha Das Gupta, Ravi Yadav, Mamta Arora, Mrinal Pandey. Bitcoin Price Prediction: A Deep Learning Approach. In ICCSAI 2022

PATENTS

Title: Smart Payment System
Role: Developer, Primary Inventor

- Designed and implemented an advanced payment transfer mechanism enabling seamless transactions from one wallet to another. The innovation supports the transfer of any cryptocurrency to a specific type of currency, enhancing the flexibility and efficiency of financial transactions.

SKILLS AND INTERESTS

Languages: Python, C, Solidity, JavaScript
Frameworks: NodeJS, ReactJS, Web3JS, Django
DevOps Tools: Jenkins, Docker, Kubernetes, Digital Ocean, Selenium
Version Control: Git
Machine Learning Frameworks: TensorFlow, Keras, PyTorch
Operating Systems: Linux and Windows
Other Skills: Agile Methodology, Process Planning, Project Management