HARSHITH MAKKAPATI

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Education

University of Houston, Houston, TX **AUG 2023 - DEC 2024**
Master of Computer Science – Coursework: Visualization, Data Analysis, Cloud Computing *CGPA: 3.77*

Jawaharlal Nehru Technological University, Hyderabad, India. **MAY 2019 - AUG 2023**
Bachelors in Computer Science – Coursework: Object Oriented Programming, Database, DSA *CGPA: 9.07/10*

Technical Skills

Skills: Web Development, DBMS, Excel, User modeling, MS Office, Software Development Methodology
Languages: Java, Python, R, HTML/CSS, JavaScript, DSA, Graph Algorithms
Database and Developer Tools: MySQL, VS Code, Github, Git, MongoDB
Libraries: Numpy, Pandas, Matplotlib, Scikit, TensorFlow, PyTorch, R

Experience

University of Houston **DEC 2023 – Present**
Admissions Department *Houston, TX*
- Led projects by collecting, cleaning, and analyzing Undergraduate Students data using tools including Excel and SQL.

Ace Ventures Pvt Ltd **AUG 2022 – JAN 2023**
Front End Developer Intern *Hyderabad, India*
- Deployed widely recognized security protocols to protect customer data, ensuring integrity and confidentiality.
- Engineered and maintained a login system using a blend of front-end technologies (HTML, CSS, JavaScript) and back-end technologies (Node.js, MongoDB).
- Implemented robust error-handling strategies aimed at reducing user frustration and minimizing support inquiries encountered during the login process.

Projects

Deep Learning and Sentiment Analysis Based Cryptocurrency Price Prediction | *NLP, PyTorch, SQL* **May 2023**
- Enhanced a machine learning model, elevating accuracy rates to an exceptional 95prediction of cryptocurrency prices.
- Engineered a model capable of providing valuable insights into general price trends and directional expectations within cryptocurrency market.

3D Visualization for Brain Imaging | *PyQt, VTK, ITK Libraries, ParaView* **DEC 2023**
- Led development of advanced brain tumor segmentation method: two-step process with binary mask generation and Connected Component analysis for accuracy.
- Created intuitive interface with customizable parameters for enhanced visualization, including connected component filters and opacity.
- **Achieved a 20% increase** in segmentation accuracy compared to previous methods.

Traffic Sign Classifier | *HTML/CSS, Python, JS, OpenCV, Tensorflow* **SEP 2022**
- Led team analyzing road accidents, developed Convolutional Neural Network model for traffic sign detection.
- Inclusion of Traffic Recognition System in the ADAS features of cars.
- **Reduced false positives by 25%** through fine-tuning of the CNN model.

Publications

An Integrated MCDM Approach for Cloud Service Selection Based on TOPSIS and BWM **Dec 2022**
International Journal of Computer Engineering in Research Trends(IJCERT)
- This Study aimed to assign performance factor for each service provided by cloud and ranks it as a whole using MCDM algorithms.

Certification

- Google Cloud Engineer Program.
- Oracle Database Programming with SQL
- Artificial Intelligence by SkillUp.