Deepak Sai Madishetty

+1 (929) 595-1696 • deepaksaimadishetty7@gmail.com • https://www.linkedin.com/in/deepak-sai-madishetty-2572b3171

EDUCATION

M.S. Computer Science **Expected 05/2024**
Arizona State University, Tempe, AZ GPA 3.89
Relevant Coursework: Software Security, Software Verification, Validation and Testing, Data Processing at Scale, Data Mining

B. Tech Computer Science **06/2021**
VNR VJIET, Hyderabad, Telangana, India GPA 3.90
Relevant Coursework: Database Management Systems, Advanced Data structures and Algorithms using C++, Web Technologies

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, Shell Script, HTML, CSS, JavaScript, TypeScript, Clingo
Frameworks: Angular, Bootstrap, TensorFlow, PyTorch, scikit-learn, Keras
Tools and Databases: Docker, Postman, MySQL, SQL server, MATLAB, Jupyter Notebook, MariaDB, Git, Jenkins & JIRA

WORK EXPERIENCE

DBS Tech India, Hyderabad: Senior Officer, Specialist, Application Development (Full Stack) **07/2021 – 07/2022**

- Successfully developed, deployed, and maintained nearly five RESTful APIs leveraging Java, Spring Boot, MariaDB, and Shell scripting to facilitate data retrieval from various client company databases based on specified queries. The acquired data was then stored in the team's centralized database.
- Identified and resolved technical issues within the project, resulting in a remarkable 90% improvement in API performance.
- Demonstrated technical leadership by proactively designing and implementing a user interface using Angular framework, HTML, and CSS. This interface allowed direct updates and additions of specific values to the database without the need for querying. This initiative significantly reduced the team's manual workload by 75%.
- Recognized with 'THE SUPER ROOKIE' award for exceptional engagement and contribution to the project, among a group of 30 developers.

RELEVANT PROJECTS

Cardiac Risk Stratification, Term Project CSE 591 **08/2022 – 12/2022**

- Developed an image segmentation model for accurately detecting the intima media thickness, a critical predictor of heart disease risk, utilizing a comprehensive dataset comprising over 500 frames extracted from 12+ videos.
- Employed the Open Snake algorithm, a state-of-the-art energy minimization segmentation technique, to precisely identify the intima media layers within the images.
- Engineered a user interface to facilitate the initialization of essential parameters and seamlessly integrated it with MATLAB to implement and fine-tune the model.

Detection of Renal Calculi using Convolutional Neural Networks, Final Year Project **01/2021 – 04/2021**

- Developed an advanced machine learning model that incorporates Convolutional Neural Networks (CNNs) to accurately detect early-stage kidney stones using CT scan images. The model achieved an impressive accuracy rate of 95%.
- Employed state-of-the-art techniques, including xResNet for stone classification and Faster RCNN for precise localization, resulting in both methods surpassing 90% accuracy when evaluated on the testing dataset.
- Contributed to the scientific community by publishing a research paper on this groundbreaking work at the esteemed ICCMDE (International Conference on Computational Methods and Data Engineering) in 2021.

EXTRACURRICULAR EXPERIENCE

PR Coordinator, Computer Society of India – Student Chapter, VNR VJIET **06/2020 – 05/2021**

- Led the public relations team, overseeing the strategic promotion of more than 10 student chapter events through diverse media channels and comprehensive campaigning efforts.
- Collaborated closely with internal teams and fostered transparent communication channels with college administration to ensure smooth coordination and alignment of objectives.
- Served as a committee member, actively participating in crucial decision-making processes pertaining to the student chapter's operations and initiatives.
- Orchestrated a highly successful student hackathon under the auspices of the student chapter, assuming responsibility for logistical aspects such as participant accommodation and catering, while ensuring a seamless and enjoyable experience for all involved.

CERTIFICATIONS

- Learning Docker - LinkedIn Learning **04/2023**
- The Data Science Course 2021: Complete Data Science Bootcamp - Udemy **07/2021**