

Yugandar Reddy Narra
Data Engineer

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Professional Experience

Graduate Research Assistant

Wichita State University, Wichita, Kansas

January 2024 - May 2024

- Worked with the Xview2 Building Damage Assessment Dataset to predict building damage levels by analyzing pre-disaster and post-disaster images.
- Implemented an object localization model using U-Net for detecting buildings in images.
- Designed and implemented a customized ResNet50 model for classifying the damage levels of buildings identified by the localization model.
- Analyzed model bias to understand if a model trained on one disaster event can predict building damage levels from a different disaster event at a different geographic location.

Desktop Support Student Assistant

Wichita State University, Wichita, Kansas

October 2022 - January 2024

- Provided technical support to students and faculty, resolving hardware and software issues on desktops and laptops.
- Installed, configured, and maintained operating systems, software applications, and security updates.
- Assisted in setting up and managing network connections and troubleshooting connectivity problems.
- Documented technical procedures and created user guides to streamline support processes.
- Supported IT team with inventory management, including tracking and organizing equipment using Azure, Active Directory, SCCM and JAMF.
- Delivered excellent customer service by effectively communicating technical solutions to non-technical users.

Systems Engineer

Tata Consultancy Services Ltd., Hyderabad, India

September 2018 - August 2022

- Collaborated with a team to develop and maintain software solutions for a leading telecom client, enhancing system reliability and performance.
- Deployed Adjunct Processor Group modules on VMWARE and OpenStack environments, ensuring seamless integration and optimal performance.
- Generated and monitored product statistics, assessing performance metrics to drive continuous improvement.
- Automated build processes and test cases using Java and JCAT, streamlining development workflows and increasing efficiency.
- Gained proficiency in End-to-End (E2E) testing utilizing TestNG, Maven, and Jenkins, contributing to comprehensive and robust testing strategies.

Education

Master of Science in Computer Science
Wichita State University

August 2022 - May 2024
Wichita, Kansas

Linear Data Modeling:

- Developed linear regression models with diverse input variables for outcome analysis and forecasting.
- Assessed model performance using metrics such as R-squared and Mean Squared Error.
- Utilized Statgraphics for data visualization and presenting model outputs to stakeholders.

Image Analysis and Computer Vision:

- Acquired proficiency in implementing algorithms for various image processing tasks, including object detection, segmentation, and classification.
- Utilized deep learning frameworks such as TensorFlow and PyTorch to construct and train convolutional neural networks, enabling advanced image recognition capabilities.
- Implemented projects focused on detecting GAN-generated images and identifying cracks in concrete structures, showcasing practical applications of image processing and deep learning techniques.

Introduction to Database Systems:

- Developed foundational knowledge in database design, development, and management, encompassing principles of relational databases and data integrity.
- Proficiently implemented CRUD (Create, Read, Update, Delete) operations, ensuring efficient data manipulation and management within database systems.
- Collaborated on a team project to design and develop a Food Delivery Website, leveraging HTML, CSS, and the Python Flask framework, with a backend powered by SQLite database, enabling users to place food orders from nearby restaurants seamlessly.

Advanced Software Engineering:

- Explored software architecture design patterns and industry best practices to enhance scalability, maintainability, and performance optimization of software systems.
- Applied acquired knowledge and skills to contribute to the development of a hotel room booking website, utilizing HTML, CSS, Python Django framework, and SQLite database, to deliver a seamless and user-friendly online booking experience for customers.

Perspectives of Data Science:

- Acquired expertise in statistical methods, empowering predictive modeling and pattern recognition capabilities.
- Explored cutting-edge trends in data science, encompassing big data technologies, deep learning, and artificial intelligence, to stay abreast of industry advancements.
- Led a project focused on predicting international student housing satisfaction, involving data collection, cleaning, and analysis from a diverse dataset of over a thousand international students. Utilized statistical techniques to identify factors influencing satisfaction levels, contributing valuable insights to enhance student housing experiences.

Key Skills

- Programming Languages: Python, JavaScript
- Web Technologies: Django, HTML, CSS, React
- Databases: SQL
- Tools: Jupyter Notebook, Google Colab, Visual Studio, Statgraphics, SQLite
- Cloud Technologies: Amazon Web Services, VMWare, Openstack