Lakshmi Narasimha Sai Narne

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Education

University of Houston   Jan 2022 – May 2023
Master of Science in Computer Science   *GPA:- 3.7/4*

RVR & JC College of Engineering   August 2017 – July 2021
Bachelor of Technology in Computer Science and Engineering   *GPA:- 9.38/10*

Experience

University of Houston   Jan 2023 – May 2023
Teaching Assistant   *Houston, USA*
- Responsible for two courses, SCLT 6320 Procurement Strategies and SCLT 6397 Urban Informatics for Logistics Management with 40 students; duties include grading assignments, providing feedback to the students and offering additional support via emails.
- Aiding in the revision of the class notes, preparing grading criteria and delivering guest lectures on machine learning related topics.

University of Houston   Sep 2022 – May 2023
Research Assistant   *Houston, USA*
- Implemented Machine Learning models in Python, including logistic regression, SVM, RF, GB, Extreme Learning Machines, and neural networks, to uncover the non-linear relationship between several socio-demographic factors and the teenager's acquisition of driver's license for millennials and their succeeding generation's.
- Assisted in conducting research on the same topic and contributed to preparing the initial draft for the work.

Cognizant   Feb 2021 – July 2021
Programmer Analyst Trainee   *Hyderabad, India*
- Trained and worked in ASP.NET Core Framework, and developed an application with microservices architecture using Entity Framework, ASP.NET Core Web API, Postman API and testing frameworks NUnit and Moq
- Utilized Microsoft Azure Logic Apps to host the web APIs and used continuous integration service in order to automate the entire process of loading the latest build code and test files.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.

Projects

Movie Info Website | *React, VS Code*   May 2023
- Created an interactive movie information website using React, delivering a user-friendly platform for exploring movie details, genres, and ratings.
- Implemented a Jenkins pipeline for continuous integration and deployment, ensuring automatic project builds and Docker image creation upon GitHub updates.
- Utilized Docker to containerize the application, seamlessly deploying updates to Docker Hub via the pipeline, maintaining an up-to-date Docker image for efficient production release.

Fuel Price Prediction Web App | *C#, ASP.NET Core, Entity Framework, NUnit, Visual studio*   July 2022
- Developed a web application that determines the fuel rate based on certain criteria and past records in the database.
- Used entity framework to perform CRUD operations in the database, used Microsoft SQL Server Management Studio to create the database and store the data and implemented NUnit and Moq frameworks to create the unit test cases.

Customer Feedback Analysis | *Python, PySpark, Deep Learning*   July 2022
- Implemented a project that identifies the product if it is bad or not based on the review given by the customer. Data was preprocessed using PySpark and various neural network models were used for the classification.
- Constructed models with CNN, LSTM, Bi-LSTM and also built hybrid models such as CNN-LSTM, CNN-Bi-LSTM. The model with best accuracy was chosen to build an app for bad product identification based on the feedback given.

Return Order Management System | *C#,ASP.NET Core MVC, ASP.NET Core Web API, Visual studio*   April 2021
- Developed a web application that allows customers to return a product or replace the damaged parts of the product.
- Implemented NUnit and Moq to create mock Web APIs in order to interact with the correct elements of the web page.
- Created Azure DevOps instances to run the web APIs online, allowing the program to run from anywhere in the cloud.

Technical Skills

Languages: C#, C, C++, Python, Java, R
Cloud Environment: Azure and AWS
Web Development: HTML, CSS, Bootstrap, JavaScript, React, ASP.NET Core, Entity Framework
Machine Learning: Scikit-Learn, Numpy, Pandas, Matplotlib, TensorFlow, Keras, ELM, SHAP, ALE
Database: MySQL, SQL server
Tools: Docker, Jenkins, Terraform, Git, Kubernetes
Certificatons :
- HashiCorp Terraform Certified Associate
- AZ-900 Microsoft Certified: Azure Fundamentals
- certification on Front-End Web UI Frameworks and Tools: Bootstrap4 by Coursera.