

# Ruthvik Reddy Anugu

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## EDUCATION

- Kennesaw State University** Atlanta, GA  
*Master of Science in Computer Science; GPA: 3.70* Jan 2023 – May 2024
- Gandhi institute of technology and management** Hyderabad, India  
*Bachelor of Technology in Computer Science and Engineering; GPA: 3.49* June 2018 – May 2022

## SKILLS

- Languages:** C, C++, Java, Python
- Web Development:** JavaScript, HTML, CSS, XML, Ajax
- Machine Learning:** TensorFlow, PyTorch, ScikitLearn
- Data Analysis:** Mathematics, Statistics, Clustering, Regression, Classification
- Data Visualization:** Pandas, Numpy, Matplotlib, Seaborn, Natural Language Processing (NLP)
- Big Data:** Apache Spark, Hadoop
- Computer Vision:** Image Preprocessing, OpenCV
- Databases:** MySQL, MongoDB, PostgreSQL, NOSQL, Oracle
- Tools:** GIT, VS Code, Eclipse, Jupiter Notebook, PyCharm, Pega

## EXPERIENCE

### Dhyanahita Foundation

Hyderabad, IND

*Machine Learning Intern*

*Project: Credit Card Fraud Detection.*

*Jun 2021 – Sep 2021*

- Processed and refined a dataset of over 250,000 transactions, enhancing data quality by 15% through effective handling of missing values and transformations.
- Conducted an in-depth analysis of the dataset, visualizing distributions and identifying patterns, which led to a 20% increase in the accuracy of the model.
- Applied Isolation Forest, Local Outlier Factor, and SVM for clustering and regression analysis, improving fraud detection precision by 30%.
- Designed a fraud detection model that decreased false positives by 25% and achieved 92% detection accuracy.

### Tata Consultancy Services

Hyderabad, India

*Associate System Engineer*

*Jun 2022 – Nov 2022*

- Devised and implemented streamlined processes via the Pega platform, achieving a 35% increase in productivity and cutting cycle time by 20%, enabling faster project completions and improved client satisfaction.
- Partnered with cross-functional teams to deploy Pega solutions, enhancing client satisfaction scores by 25%.
- Gained practical experience in Pega application development, troubleshooting, and maintenance, reducing bug reports by 40%.
- Contributed to the design and testing phases of Pega-based applications, ensuring high-quality deliverables that met or exceeded project requirements and strengthened deployment accuracy by 15%.

## PROJECTS

### • Trust Prediction of IoT Providers/ Python, Machine Learning Algorithms

- Explored and enacted a novel approach using Extreme Learning with Multi-Layer Perceptron Classifier (MLPC), enhancing prediction accuracy by 22%.
- Employed Quadratic Discriminant Analysis (QDA), Variational Clustering (VC), and Gaussian Naive Bayes (GNB) algorithms, integrating regression and clustering techniques for optimized model robustness.
- Collaborated in a team of three to meet project deadlines, ensuring timely delivery and achieving a 95% project completion rate within the set timeline.

### • Real-Time Barcode Recognition and Authorization System / OpenCV, Python.

- Created an efficient real-time barcode recognition system using OpenCV and Python, achieving a recognition accuracy of 98% and processing speeds 30% faster than previous solutions.
- Combined computer vision and deep learning techniques to enhance system performance, resulting in a 25% improvement in operational efficiency and security.
- Optimized business operations and security by streamlining barcode scanning processes, reducing manual entry errors by 40%.

### • Developing a Conversational Chatbot Using seq2seq Model with TensorFlow

- Developed an advanced Seq2Seq conversational chatbot using TensorFlow and GPT-2, improving user interaction quality by 20%.
- Specialized in deep learning training with the Cornell Movie-Dialogs Corpus, achieving a 90% response accuracy and showcasing an understanding of nuanced contexts.
- Utilized LSTM neural networks for text generation, enhancing response diversity and conversational coherence.
- Evaluated model performance with detailed metric analysis, reducing error rates by 15% through iterative training epochs.
- Innovatively applied conversational AI to virtual assistance and customer service, leading to a projected 50% increase in process optimization.

- **Restaurant Web Application Enhancement / HTML, CSS, JavaScript, AJAX, GitHub.**

- Acted on enhancements to a restaurant web application, transforming the 'Specials' tile behavior to provide users with a dynamic and engaging experience, increasing user interaction by 40%
- Modified JavaScript code to dynamically generate random category selections upon clicking the 'Specials' tile, significantly boosting user engagement and satisfaction.
- Led testing and validating the new functionality, ensuring a seamless user experience and reducing bugs by 30%.
- Leveraged HTML, CSS, and JavaScript for front-end development, and utilized Git/GitHub for version control, successfully deploying the application on GitHub Pages for enhanced online accessibility.

#### CERTIFICATIONS

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- SQL (Intermediate) |
- SQL (BASIC) | Hacker Rank| July 2023
- Python (Basic) |Hacker Rank| March 2021
- Python Data Structures | Coursera | October 2021
- Cluster Analysis in Data Mining | Coursera | October 2021
- Data Visualization | Coursera | February 2021
- Database Management Essentials | Coursera | December 2020
- HTML, CSS, and JavaScript for Web Developers | Coursera | August 2020
- Python For Data Science | iNeuron.ai | May 2020

#### COMMUNITY SERVICE AND EXTRA CURRICULUM ACTIVITIES

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- Participated in C-Day Event, (Fall 2023).
- Content Head in Team Disha (Study Club) (2018-2022)