

# Narasimha Gaonkar

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## EDUCATION

- University at Buffalo, The State University of New York** Buffalo, USA  
*Master of Science in Data Science; GPA: 3.5* Aug 2022 - Jan 2024
- Bangalore Institute of Technology** Bengaluru, IN  
*Bachelor of Engineering in Computer Science* Jun 2014 - May 2018

## SKILLS

- Languages:** Python, R, SQL, Java, Javascript, Typescript, HTML 5, CSS3
- Tools & Technologies:** PostgreSQL, MySQL, GitHub, SVN, PowerBI, TensorFlow, PyTorch, SAS, NodeJS
- Skills:** Machine Learning, Deep Learning, Data Visualization, NLP, Agile, Microsoft Azure, CI/CD

## EXPERIENCE

- EITACIES Inc.** Santa Clara, USA  
*Machine Learning Intern* Jun 2023 - Aug 2023
  - Developed machine learning models aligned with business objectives and tracked progress by employing significant metrics; resulting in a 25% improvement in key performance indicators.
  - Gained experience in exploring and visualizing data to gain insights and identify potential challenges in deploying models in real-world scenarios.
- Harman Connected Services** Bengaluru, IN  
*Senior Product Development Engineer* Jan 2022 - Jul 2022
  - Collaborated with a team of 3 to migrate web applications from Angular JS to Angular 13.
  - Created more than 10 UI wireframes to enhance site interaction and accessibility, employing user-centered design principles and close collaboration with stakeholders to achieve a seamless and inclusive user experience.
  - Incorporated JSON forms and custom renderers to handle complex reactive forms.
- Infosys** Pune, IN  
*Senior Systems Engineer* Jul 2018 - Jan 2022
  - Worked at site for second-largest Bank in Jordan as a specialist UI/UX developer for implementation of Mobile Banking application. Coordinated with onsite business and IT team to understand needs and recommended best solution.
  - Led a team of 4 to develop and publish a mobile app; offers seamless banking services such as Instant Money Transfers, Bill Payments, Mini Statements, and more.
  - Integrated Guard Square library to encrypt and obfuscate code; resulting in a 25% reduction in application size and a 30% reduction in tampering attacks.
  - Implemented QR code scanning capabilities for Android and iOS mobile applications, resulting in a seamless user experience for a customer base of 1 million users. Significantly improved payment functionality and streamlined transaction processes, enhancing overall user satisfaction.

## PROJECTS

- Street View House Number Identification (Deep Learning, Image Processing, AlexNet):** Built a custom Convolutional Neural Network (CNN) from scratch using PyTorch for identifying Street View House Numbers on Google SVHN dataset. Incorporated various augmentation techniques to increase size and diversity of training data. Optimized model's performance and generalization by fine-tuning hyperparameters; Obtained test accuracy of 93.4%.
- Recognizing Fraudulent Credit Card Transactions (Machine Learning):** Coordinated with a team of 4 to classify fraudulent credit card transactions on highly imbalanced data with a fraud rate of 0.172%. Implemented Logistic Regression in conjunction with SMOTE to cross-validate accuracy for detecting fraudulent transactions; attained 98.7% accuracy.
- SuperMario Reinforcement Learning Agent (Deep Learning):** Generated a Super Mario-themed Grid-World environment in accordance with OpenAI Gym standards, trained RL agents using SARSA and Q-Learning with an average total reward of 500 points, and obtained an accuracy of 90% in evaluating learned policies.
- Context Based Sarcasm Detection (Natural Language Processing):** Created a dataset of 28,000+ news entries, utilized NLP techniques including embedding, tokenization, and Bi-LSTM & RoBERTa models to achieve 96% classification accuracy for context-based sarcasm detection, resulting in better understanding of sarcasm in language.
- Old Age Home Database Management System (PostgreSQL, Web Development, PowerBI):** Designed a comprehensive Database Management System for an Old Age Home to efficiently handle medication management through optimized queries and a user-friendly dashboard. Leveraged PostgreSQL and web technologies for analytical and usage statistics, along with reminders for timely medication administration.

## CERTIFICATIONS

- Deep Learning Specialization
- Microsoft Azure Data Scientist Associate (DP-100)