PRASASTH GANDRAKOTA

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LinkedIn • Portfolio • GitHub

Electrical and Computer Engineering postgraduate with 2+ years of healthcare consulting experience. Highly versatile and skilled in Python, SQL, and Machine Learning modules, eager to make impactful contributions with an equal focus on customer problems

EDUCATION

Northeastern University, Boston, MA   *May 2024*
Master of Science in Electrical and Computer Engineering   **GPA: 3.8 / 4.0**
Concentration in Computer Vision, Machine Learning, and Algorithms

Relevant Courses: Machine Learning and Pattern Recognition, Computer Vision, Database Management Systems, Probability and Stochastic Processes, Data Visualization, Wireless Sensor Networks and Internet of Things

SRM Institute of Science and Technology, Chennai, India   *May 2019*
Bachelor of Technology in Electronics and Communication Engineering   **GPA: 8.5 / 10.0**

TECHNICAL SKILLS

- **Programming:** Python, R, MATLAB, C/C++, Visual Basic
- **Machine Learning:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, scikit-learn, Tensorflow, keras, nltk, Pytorch, Gymnasium
- **Data Analysis and Visualization:** MySQL, SQLite, XPath, RStudio, Tableau, Microsoft BI, Microsoft Excel, AWS
- **Certifications:** EPIC – Health Information Management module

PROFESSIONAL EXPERIENCE

Business Technology Analyst, Healthcare Industry   *January 2020 - May 2022*
Deloitte Consulting USI Pvt. Ltd, Bengaluru, India

- Supervised tickets as primary application analyst for two modules and backup analyst for several other modules in EPIC resulting in 15% decrease of average ticket resolution time across all modules
- Generated detailed reports on ticket resolution metrics using Tableau, providing actionable insights and driving continuous improvement in support processes
- Executed over 200 end to end manual and automation test scenarios per test cycle for EPIC using MicroFocus UFT as one of the primary quality assurance analysts, ensuring comprehensive and successful coverage of workflows
- Utilized AWS S3, Glue, Athena and Quicksight for data pipeline creation and analysis, streamlining defect tracking and reporting, and enhancing overall test management efficiency
- As a member of the leadership team formulated a strategy to integrate Machine Learning into Testing Automation, contributing to the development of innovative testing solutions
- Effectively fostered collaboration between cross-functional teams before and during test cycles, facilitating clear communication channels and expediting issue resolution
- Led mentoring and onboarding efforts for new team members, providing regular assistance with their challenges, promoting seamless integration into existing team dynamic and improving onboarding efficiency by 20%
- **Achievements:** Received the "Applause Award" for driving contributions to building and maintaining the automation test suite in HPQC ALM, improving test efficiency by 50%, and displaying versatility in adapting to new concepts and roles

PROJECTS

Analyzing Hospital Clinic Visits   *May 2024*
Individual Project, Boston, MA

- Analyzed data regarding clinic visits for a particular hospital over the course of two years including age, gender, wait times, satisfaction score, and department referrals (using **Microsoft Excel**)
- Implemented a dashboard consisting of various information regarding number of visits, average wait time, average satisfaction score and gender distribution allowing for an interactive and intuitional experience for the user (using **Microsoft Power BI**)

Pharmaceutical Sales Data ETL and Analysis Pipeline   *April 2024 – May 2024*
Northeastern University, Boston, MA

- Designed and implemented a normalized relational schema in SQLite based on XML data and developed efficient algorithms to extract, transform, and load XML data into the database (using **RSQLite** and **XPath**)
- Created and populated MySQL data warehouse in AWS RDS utilizing star schema and conducted data exploration and mining, generating insightful report in R markdown with various visualization techniques (using **AWS** and **RMySQL**)

Gesture Classification with Input Mapping   *February 2024 – April 2024*
Northeastern University, Boston, MA

- Evaluated the performance of deep learning models, MobileNetV2 and EfficientNetV2, in classifying gestures using 10,000 samples from the HaGRID dataset and fine-tuned the best model to achieve a test accuracy of 94% (using **TensorFlow**)
- Integrated the classification outputs of the models into inputs for a 2D car racing game and lunar lander simulation, capturing real-time results from live video feed to drive the games (using **Gymnasium**)