

# 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 to industry with an equal focus on customer problems

## EDUCATION

### Northeastern University, Boston, MA

*Master of Science in Electrical and Computer Engineering*

*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

*May 2024*

**GPA: 3.8 / 4.0**

### SRM Institute of Science and Technology, Chennai, India

*Bachelor of Technology in Electronics and Communication Engineering*

*May 2019*

**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, PostgreSQL, XPath, RStudio, Tableau, Microsoft BI
- **Other:** MicroFocus UFT, HPQC ALM, Arduino, AWS

## PROFESSIONAL EXPERIENCE

### Business Technology Analyst, Healthcare Industry

Deloitte Consulting USI Pvt. Ltd, Bengaluru, India

*January 2020 - May 2022*

- 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
- Executed of 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
- 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

### Pharmaceutical Sales Database Management and Mining

Northeastern University, Boston, MA

*April 2024 – May 2024*

- 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 **SQLite** 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

Northeastern University, Boston, MA

*March 2024 – April 2024*

- 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**)

### Finding Similar Movies based on Plot Summaries

Individual Project, Boston, MA

*February 2024 – March 2024*

- Preprocessed text utilizing tokenization and stemming, performed TFIDF vectorization to extract features and applied K-Means clustering to analyze dataset of movies and their plot summaries (using **nltk** and **scikit-learn**). Measured plot similarity and visualized hierarchical clustering using dendrogram (using **Scipy** and **Matplotlib**)

### Breast Cancer Detection

Northeastern University, Boston, MA

*February 2023 - April 2023*

- Analyzed a dataset of 569 breast cancer patient records with 30 features, achieving binary classification for Benign (B) and Malignant (M) tumors and compared model performance among multiple algorithms to determine most effective solution, thereby acquiring an accuracy of 95.6% using Random Forest and 90.4% using Decision Trees (using **scikit-learn** and **Matplotlib**)