PRASASTH GANDRAKOTA

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Boston, MA

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 ***Expected May 2024***
Master of Science in Electrical and Computer Engineering **Current GPA: 3.7 / 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

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
- **Data Analysis and Visualization:** MySQL, SQLite, PostgreSQL, RStudio, Tableau
- **Other:** MicroFocus UFT, HPQC ALM, Arduino, AWS

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
- 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

Breast Cancer Detection ***February 2023 - April 2023***
Northeastern University, Boston, MA

- 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**, **NumPy** and **Matplotlib**)

ECG Classification using Convolutional Neural Networks ***November 2023 – December 2023***
Individual Project, Boston, MA

- Performed multiclass classification by pre-processing and analyzing dataset of 87554 ECG diagrams with 187 features (using **Pandas** and **NumPy**)
- Constructed a Convolutional Neural Network model with Conv1D, max pooling, dropout, and dense layers for five-class classification (using **TensorFlow** and **Keras**) achieving 98% accuracy

Analysis of Bird Strikes on Aircrafts ***February 2024 – March 2024***
Northeastern University, Boston, MA

- Configured AWS RDS for cloud-based MySQL server setup and implemented relational schema for efficient data organization (using **AWS** and **RStudio**)
- Imported and processed dataset of 25,558 records with 15 variables into MySQL database and executed SQL queries to analyze bird strike incidents for aviation risk assessment (using **RMySQL**)

Finding Similar Movies based on Plot Summaries ***February 2024 – March 2024***
Individual Project, Boston, MA

- 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**)