

# AMRUTHA SAI EDARA

Boston, MA | +1(617)749-5883 | [edara.a@northeastern.edu](mailto:edara.a@northeastern.edu) | [LinkedIn](#) | [Github](#)

## EDUCATION

### Northeastern University

Boston, MA

*MS in Computer Engineering-Information Systems; GPA: 3.43/4.00*

*Sep 2022 - Expected May 2024*

Coursework - Application Engineer Development; Advances in Data Science and Architecture, Web design / User Experience engineering; Data Management and Database Design; Data Science Engineering Methods and Tools; Planning and Managing Information Systems, Designing Advanced Data Architecture for Business Intelligence.

### Jawaharlal Nehru Technological University

Hyderabad, India

*Bachelor of Technology in Electronics and Communication Engineering; GPA: 3.20/4.00*

*Jun 2017 - Jul 2021*

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, Javascript, HTML, CSS, SAS, C

**Libraries:** Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib, Seaborn, Keras, Tensorflow, NLTK, PySpark, SpaCy

**Tools:** Alteryx, PowerBI, Tableau, Jira, ER studio, Jupyter, NetBeans, Vs Code, GIT, MongoDB, Pycharm, Arduino IDE, Google Colab

**Algorithms:** linear/logistic regression, SVM, KNN, K-means, Naive Bayes, Random forest, Decision Tree, Ordinary least squares, CNN, Gradient Boosting, PCA, RNN, LSTM, A/B testing, ARIMA

**Certifications:** Python for Data Science, AI and Development; Data Visualization with Python

## PROFESSIONAL EXPERIENCE

### Accenture

July 2021 – June 2022

*Application Development Analyst*

*Hyderabad, India*

- Managed end-to-end data flows from the industry to the ISU system, ensuring an average throughput of approx. 2,000 data units per day.
- Performed analysis and exception handling by curating and Re-processing of all the in-bound and out-bound IDOCs achieving KPI to be in Green.
- Developed and executed approx. 15 ad hoc queries per month, effectively resolving 80% of system exceptions. Analyzed and reprocessed inbound and outbound failed IDOCs, contributing to exponential success rate of 75% in processing new connections and a 40% reduction in error rates in the backlog.
- Facilitated weekly and monthly KPI reports for business, Exception Handling of the SAP scripts by building Ad Hoc queries for business needs, enhancing middle-ware application performance resulting in 85% accuracy tracking new connections.

### Key Achievements:

- Successfully developed a Ad-hoc queries and ABAP reports resulting in 70% of accurate incoming new-connections into the SAP system from the industry. This achievement made me best performer of the month within two months into the project.

## PROJECTS

### Abstract Summarization using Transformer Model |Python, Pegasus, TensorFlow, Hugging face, NLTK

Oct 2023

- Conducted model inferencing using a pipeline, specifically tailored for summarizing tasks. Applied tokenization and batch processing to initial dataset, optimizing data readiness.
- Employed Rouge metric to evaluate model performance and integrated data collator for effective sequence-to-sequence learning.
- Validated and fine-tuned model efficiency on a test dataset, confirming enhanced summarization capabilities.

### Sentiment Analysis with NLP |Python, TensorFlow, Keras, Deep Learning

Nov 2023

- The project implies text pre-processing which combines tokenization, lemmatization, stemming, and stop-words removal to refine text data.
- Utilized TF-IDF measure to assess word relevance in documents. Employed LinearSVC, BernoulliNB, MultinomialNB, Logistic Regression, and Random Forest Classifier for sentiment analysis of the data.

### Data Analysis Report on Sharktank India dataset |AutoML, VIF, Decision Trees, Random Forest, SVM

Feb 2023

- Applied data imputation techniques to handle the missing data, Utilized data modeling techniques to build predictive models, allowing for the extraction of valuable insights and patterns.
- Conducted null hypothesis testing and assessed collinearity with VIF. Leveraged AutoML for model comparison, selecting the best algorithm for predicting the target variable.

### Property Rental Management System |SQL, Data Modeller, ER diagram, Triggers, functions

Oct 2022 – Dec 2022

- Designed and implemented a centralized property database management system using an Oracle database and Oracle Data Modeler.
- This system monitored user activity, managed user privileges, and automated key activities related to property rental and maintenance, enhancing operational efficiency and data management.