

# SATYA SAI ESARAPU

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## EDUCATION

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**Rajiv Gandhi University of Knowledge Technologies, Nuzvid**

**2021**

*B.Tech - Electronics and Communication Engineering - CGPA - 7.38*

*Andhra Pradesh*

## PROJECTS

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**Text-Emotion Detection** [🔗](#) | [scikit-learn](#), [streamlit](#), [neatttext](#), [AWS EC2](#), [IDE - VS Code](#)

- Clean and prepare text data for analysis using the Neatttext module.
- Train a model with logistic regression or MultinomialNB algorithms on preprocessed text data and emotional labels.
- Evaluate model performance, predict emotions in new text, and deploy using the Streamlit framework

**Sentiment-Analysis** [🔗](#) | [scikit-learn](#), [streamlit](#), [TextBlob](#), [VADER](#), [Transformers](#), [IDE - VS Code](#)

- Employed TextBlob, VADER, and Transformers to analyze text and grasp the emotions or opinions expressed within it.
- Integrate with the Streamlit framework, offering users an interactive web platform to input text and promptly obtain sentiment analysis outcomes.

**Water Quality Analysis** [🔗](#) | [pandas](#), [matplotlib](#), [seaborn](#), [plotly](#) [IDE - VS Code](#)

- Analyzed water quality data using pandas, numpy, seaborn, and plotly for data manipulation, visualization, and exploration.
- Utilized predictive modeling techniques with PyCaret to train machine learning models for water quality prediction.
- Combined data analysis and predictive modeling to assess and ensure the safety of drinking water.

## Skills

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### Programming

Python

### Machine Learning

scikit-learn, Tensorflow, Pandas, Numpy, Keras, Matplotlib, Pytorch, NLP

### Web Development

HTML, CSS, Flask, Streamlit, MySQL, MongoDB

### Tools

AWS, PySpark, Git, GitHub, Docker, MS Office, Tableau

## CERTIFICATIONS

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- Data Science and AI - dataminds

## EXTRACURRICULAR

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Served as President at E-Crush, an organization dedicated to enhancing English language skills, and successfully organized over 15 events. (2019-2020)