

# VEERLA SAILAJA

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Kankipadu, Andhra Pradesh - 521151, India

## EDUCATION

- NRI Institute Of Technology** 2022 - present  
B. Tech (Artificial Intelligence and Machine Learning)  
◦ GPA: 8.975  
Agiripalli, India
- Sri Chaitanya Junior College** 2020 - 2022  
Board of Intermediate Education  
◦ Percentage: 92.7%  
Vijayawada, India

## SKILLS

- Programming Languages:** Python, SQL, R
- Data Analysis & Visualization:** Microsoft Excel ( Advanced ), Power BI, Tableau, Matplotlib, Seaborn
- Database Management Systems:** MS SQL Server, TimescaleDB
- Machine Learning & Statistical Tools:** Scikit-learn, TensorFlow, Numpy, Pandas
- IDEs:** VS Code, PyCharm, Jupyter Notebook, Colab
- Version Control:** Git, GitHub

## PROJECTS

- Real-Time DWLR Data Analysis and Alert System | [GitHub](#)**  
Tools: Python, Flask, SQL, Matplotlib, Scikit-learn
  - Anomaly Detection: Developed algorithms to analyzed water level readings, achieving an 87% accuracy in identifying anomalies caused by faulty devices or abnormal water conditions.
  - Alert System Integration: Implemented an alert system that notified users within 30 seconds of anomaly detection, reducing response times by 60%.
- Osteoporosis Risk predictor | [GitHub](#)**  
Tools: TensorFlow, Keras, Scikit-Learn, Streamlit
  - Image Data Utilization: Trained a CNN on 400+ annotated knee X-ray images, achieving an accuracy of 83% in assessing osteoporosis risk.
  - TensorFlow Implementation: Built and optimized a CNN model with 100+ trainable parameters, reducing prediction errors by 15% compared to baseline models.
  - Web Application Development: Designed an interactive interface using Streamlit with a file upload feature supporting images up to 5MB, allowing users to analyze X-rays with results generated in under 3 seconds.
- YouTube Sentiment Analysis | [GitHub](#)**  
Tools: Stream lit, YouTube Data API, NLTK, VADER, Matplotlib, Seaborn
  - Data Visualization: Built interactive sentiment dashboards using Matplotlib and Seaborn, visualizing real-time trends and actionable insights. Utilized data visualization techniques to drive data-driven decisions.
  - API Integration: Implemented the YouTube Data API to enable real-time sentiment analysis, processing up to 100,000 comments efficiently. Enhanced the data pipeline's efficiency to analyze over 1 million comments weekly.

## CERTIFICATIONS

- Data Analysis with Python | **IBM** (Credential Id: 6449f469651c459f9b8b0acd2555549d)- [Certificate](#)
- Google Data Analytics Capstone: A complete case study | **IBM** (Credential Id: DK01C3QW2KRM) - [Certificate](#)
- Google Data Analytics Professional Certificate | **Coursera** (Credential ID: 8270YMOKETAZ)- [Certificate](#)
- Cisco Networking Academy Data Analytics Essentials Certificate | **Cisco** - [Certificate](#)
- Joy Of Computing with Python | **NPTEL** (NPTEL24CS1135755702340)- [Certificate](#)

## ACHIEVEMENTS

- Won 1<sup>st</sup> Prize at a project expo for the "Alert System for Digital Water Level Recorder" at Andhra Loyola College of Engineering.
- Secured 2<sup>nd</sup> Position in PPT presentation on the World youth skill day organized by department of CSD at NRIIT