

AMARESH AKHIL KRISHNA

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Education

Electronics and communication Engineering, <i>National Institute of Technology, Tadepalligudem, Andhra Pradesh</i> CGPA: 7.38	11/2020 – 05/2024 Tadepalligudem, India
Intermediate, Narayana Junior College CGPA: 8.61	2020
SSC (X), Naveena Vidhya Nikethan High school CGPA: 9.5	2017

Skills

- Python
- Machine Learning
- Object Oriented Programming
- Data structures and algorithms
- DBMS
- SQL
- Problem solving
- Time management
- Critical-thinking

Projects

College predictor using Machine learning

- Developed a predictive model to forecast the opening and closing ranks of colleges for prospective students using advanced machine learning techniques. The project employed **k-fold cross-validation** to assess model performance and **BaggingRegressor** with **Decision Trees** to enhance prediction accuracy. Data preprocessing and feature engineering were conducted using **pandas and numpy**, while results and performance metrics were visualized with matplotlib. This project demonstrated strong proficiency in **scikit-learn** and a robust understanding of machine learning methodologies.

Allocation of hospitals using ML

- Designed a machine learning model to optimize the allocation of hospitals in urban areas. Employed the **elbow method** to determine the optimal number of clusters and used **K-means clustering** to group locations based on various demographic and geographic factors. Additionally, implemented the **hill climbing method** to further refine cluster centers, ensuring efficient and effective hospital distribution. This project involved comprehensive data analysis and model tuning to achieve optimal results, leveraging advanced machine learning techniques for strategic decision-making in healthcare infrastructure planning.

Certificates

- DBMS FROM NPTEL

Experience

Summer Intern at VIZAG STEEL PLANT

Visakhapatnam

- IP-based surveillance CCTV systems offer high-resolution video quality, remote monitoring capabilities, scalability, advanced features, flexible storage options, enhanced security, and find wide-ranging applications in diverse settings for effective security and surveillance

Languages

- English
- Telugu

Awards

Winners

- Winners of the Intra moral volleyball tournament. Captain of Intra moral volley ball competition 2022-2023 and 2023-2024.
- Captain of Inter Nit Volleyball Competition 2022-2023 and 2023-2024.

Declaration

I solemnly declare that all the information furnished in this document particulars is free of errors to the best of my knowledge and I hold the responsibility for the corrections of the above mentioned