

# Ankam Karthik

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## EDUCATION

### Bachelor of Technology (B. Tech) in Artificial Intelligence and Machine Learning

CGPA 7.9/10

Chaitanya Bharati Institute of Technology, Hyderabad

Jun 2023 - May 2027

### Senior Secondary (XII), Telangana State Board of Intermediate Education

Percentage - 94.2%

Narayana IIT Academy, Hyderabad

Aug 2021 - Mar 2023

### Secondary (X), Telangana State Board of Intermediate Education

CGPA 10/10

Sri Chaitanya e - Techno School, Siddipet

Jun 2020 - May 2021

## PROJECTS AND CERTIFICATIONS

### Natural Language Processing Projects (*Internshala*)

Tools & Tech - Python, Scikit-learn, NLTK, Pandas, Matplotlib, Regex

Dec 2024 - Feb 2025

- **Twitter Sentiment Analysis (Final Project):**  
Built a sentiment analysis model to classify tweets and detect hate speech using supervised machine learning. Performed end-to-end data processing including cleaning, feature extraction (TF-IDF), model training, and evaluation.
- **Language Modeling with Reuters Dataset:**  
Designed a next-word prediction system using probabilistic language models. Explored and applied text tokenization, POS tagging, and spelling correction techniques for model optimization.
- **Information Extraction from Social Media Data:**  
Applied NLP techniques like Named Entity Recognition (NER), Dependency Parsing, and Relation Extraction to identify structured information from unstructured text.

### Machine Learning Projects (*Internshala*)

Tools & Tech: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Jun 2024 - Aug 2024

- **Property Price Prediction:**  
Developed a regression model to predict real estate property prices based on features like location and property attributes. Applied data cleaning and linear regression to build and evaluate the model.
- **Customer Churn Prediction:**  
Built a classification model to identify potential customer churn in the telecom industry using logistic regression, KNN, and decision tree algorithms. Focused on exploratory data analysis (EDA) and model evaluation.

## SKILLS

- **Programming Languages:** Python, SQL (MS SQL Server)
- **Machine Learning (Supervised):** Linear Regression, Logistic Regression, Decision Trees, K-Nearest Neighbours (KNN), Naive Bayes, Support Vector Machines (SVM), Random Forest
- **Unsupervised:** K-Means Clustering, Hierarchical Clustering, DBSCAN, Principal Component Analysis (PCA)
- **Natural Language Processing:** Text Preprocessing, TF-IDF, Text Classification, Named Entity Recognition, NLTK
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn

## ACHIEVEMENTS & ACTIVITIES

- Scored **94.5** percentile in **JEE Mains** and secured **EAMCET Rank 3444 (top 1.8%)** among ~1.95 lakh candidates in the engineering entrance exams.
- Volunteered with the **Robotics Club at CBIT**, contributing to workshops and hands-on technical events promoting automation and innovation.
- Participated in a **Hackathon**, developed a data analysis tool that generates automated insights and visualizations from structured datasets.