KODURU NAGA NITISHA

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CAREER OBJECTIVE

To develop innovative AI and data-driven solutions that address complex challenges and optimize decision-making. Committed to advancing learning and comprehending my skills throughout the process.

EDUCATION QUALIFICATION

- **Bachelor of Engineering - Artificial Intelligence and Data Science**

  CMR Institute of Technology, Bengaluru.

  8.88, 2026 (Pursuing)

- **Pre-University - Science**

  Sri Chaitanya PU college, Bangalore

  75.80%, 2022

- **10th Grade**

  Sri Chaitanya Techno School, Bangalore

  86.60%, 2020

TECHNICAL SKILLS

- **Programming Languages:** C, Java, Python, HTML, CSS,
- **Tools & Softwares:** SolidEdge, Tableau, Power BI, Visual Studio Code, Jupyter Notebook, Google Workspace, Postman, Eclipse IDE, Apache Superset
- **DevOps & Version Control:** Git, GitHub, Jenkins, Ansible, Docker (basic), CI/CD pipelines
- **Data Science & ML**: Scikit-learn, Matplotlib, Seaborn, TensorFlow (beginner), Google Colab
- **Operating System**: Linux, Windows, Andriod
- **Database Technologies**: MySQL, MongoDB
- **Frameworks**: Flutter,Flask, React, Pandas, OpenCv, Tenserflow

PROJECTS

- **Title: Women Safety App**
  - Description: Developed a safety-focused Android application designed to assist women in distress by enabling real-time location tracking and quick communication with emergency contacts. The app allows users to trigger an SOS alert by pressing a button, which instantly shares their live GPS location with pre-selected contacts via SMS. Integrated secure login and data storage mechanisms to protect user information. The interface is designed for simplicity and speed in emergencies, using intuitive navigation and clear UI elements. Incorporated background services to ensure continuous tracking and quick response even if the app is minimized.
  - Tech Stack: Android Studio, Kotlin, XML, Firebase (Authentication & Realtime Database), Google Maps API

- **Title: Hand and face gesture recognition**
  - Description: Built a computer vision system capable of recognizing hand gestures and identifying known human faces using real-time video input. Initially focused on hand gesture recognition using MediaPipe, supporting both single-hand and dual-hand gestures for interaction. Later enhanced with facial recognition features to detect and identify authorized faces from a pre-trained dataset, while labeling unknown faces accordingly. The system uses advanced models from the Face Recognition library for accurate face matching and OpenCV for video capture and processing. Designed for applications such as secure access, contactless interaction, and gesture-based control systems.
  - Tech Stack: Tensorflow, python, openCV, mediapipe, face recognition library.

- **Title: N-Gram Based Language Model for Next-Word Prediction**
  - Description: Developed an N-gram (unigram, bigram, trigram) language model using Python to predict the next most probable word based on a given phrase. The model includes text preprocessing (lowercasing, punctuation removal, tokenization), frequency count generation, and calculation of conditional probabilities for n-grams. Implemented interactive user input for next-word prediction along with detailed probability and frequency tables. The project showcases understanding of NLP fundamentals and probability-driven language modeling.
  - Tech Stack: Python, Jupyter Notebook, NLTK (optional), Regex, Collections (defaultdict, Counter), Basic File I/O.

- **Title: Iris Flower Classification using KNN**
  - Description: Developed a supervised machine learning model to classify Iris flowers into three species (Setosa, Versicolor, Virginica) using the K-Nearest Neighbors algorithm. Conducted comprehensive exploratory data analysis (EDA) to understand feature distributions and class separability. Applied pairplots and statistical summaries to identify key features (petal length and width) contributing to accurate classification. Used scikit-learn to train and evaluate the model on a 70:30 train-test split. Achieved 97.78% accuracy with detailed performance evaluation using confusion matrix and classification report. Optimized model by experimenting with various k-values and visualized accuracy trends using line plots.
  - Tech Stack: Python, scikit-learn, pandas, seaborn, matplotlib, Jupyter Notebook.

CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

- **Certifications:**
  - Completed a course on Java, Python, Data structures for beginners from Udemy
  - Completed a course on Cyber security from Udemy
  - Completed a course on Full Stack Web development from Udemy
- **Hackathons:**
  - Participated in EY Techathon 5.0
  - Participated in Aptitude Hackathon 1.1
  - Participated in Nokia Student Hackathon, 2025
- **Technical Clubs:**
  - Served as the member of the marketing team in Coding Ninjas
- **NSS Activities:**
  - Government School Visit and Student Interaction
  - Footpath Cleaning Drive in Collaboration with an NGO.
  - Plantation and Adoption of plants
- **Additional Responsibilities:**
  - Volunteer- Run For Lakes Marathon, CMRIT
  - Volunteer-Mini Project Exihibition, CMRIT
  - Volunteer- CULTURA Fest, CMRIT
  - Event Head – Led the AI and Data Science team of the AURA 2024 Fashion Show, CMRIT

PERSONAL DETAILS

Date of Birth	: 17 October 2004
Gender	: Female.
Nationality	: Indian.
Linguistic Competency	: English, Telugu, Hindi, Kannada (Beginner), French (Beginner)
Hobbies	: Travelling, Dancing, Fashion Designing, Cooking, Reading fictional books