Krishna Viradiya

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Hi! I am a final-year student from GSFC University pursuing my B.Tech in Computer Science and Engineering (with specialization in Data Science, Machine Learning, and Artificial Intelligence). I have applied, implemented, and analyzed various models in these domains through internships and projects. Additionally, I am experienced working with Graphic Design and 3D Design. I'm always excited to explore, contribute, and collaborate on innovative projects and research opportunities.

KEY EXPERTISE:

Artificial Intelligence, Machine Learning, Natural Language Processing, Deep Learning, Soft Computing, Data Science, Social Network Analysis, Python

ACADEMIC & INTERNSHIP PROJECTS:

VoiceDiarizer [Github Link] | Internship Project (ONGC)
- Built a real-time voice diarization system using unsupervised clustering and voice-feature reinforcement to separate multiple speakers and generate time-stamped transcriptions.
- Tech Stack: Python, HTML, CSS | Libraries: PyTorch, Flask, Flask-SocketIO, NumPy, Librosa, PyAudio, SpeechBrain, SpeechRecognition, pyannote.audio
- Algorithms/Models: Voice Activity Detection (VAD), Google Web Speech API, ECAPA-TDNN

Cross-Lingual Word Sense Disambiguation using natural language processing
[Colab Link] | Academic Project
- Developed a cross-lingual WSD system to resolve word ambiguity in English text and align meanings with Hindi translations.
- Tech Stack: Python | Libraries: Transformers, Torch, NLTK, WordNet, HuggingFace Pipelines
- Algorithms: BERT Embeddings, Cosine Similarity, WordNet Synset Matching, Neural Machine Translation (English→Hindi)
- Datasets: WordNet (via NLTK), bert-base-uncased, Helsinki-NLP/opus-mt-en-hi

Spam SMS Detection [Github Link] | Personal Project
- Implemented a supervised ML model to classify SMS messages as spam or ham, applying text preprocessing and feature engineering.
- Tech Stack: Python | Libraries: Pandas, re, Pickle, Streamlit, scikit-learn
- Algorithm: Logistic Regression | Achieved high precision & recall on benchmark dataset.

Predicting Sales Prices using Machine Learning [Colab Link] | Academic Project
- Designed a regression pipeline to predict house prices using structured data.
- Tech Stack: Python | Libraries: Pandas, NumPy, scikit-learn, XGBoost, Pickle
- Algorithms: XGBoost Regression, One-Hot Encoding, Simple Imputation, ColumnTransformer Pipelines
- Dataset: Kaggle "House Prices – Advanced Regression Techniques"

Motion Triggered CCTV Recognition System [Github Link] | Personal Project
- Built a real-time surveillance system with motion detection and face recognition.
- Tech Stack: Python, HTML, CSS | Libraries: OpenCV, Flask, TensorFlow, NumPy, Pillow, Gunicorn
- Algorithms: Haar Cascade Classifiers for face & body detection.

Remote Weather Surveillance System | Hackathon Project
- Developed an IoT-based system for remote weather monitoring and air-quality detection.
- Programming Languages: C, Lua | Technologies: DHT11, MQ135, NodeMCU, Arduino Cloud

Laboratory Management System [Github Link] | Internship Project (Krivi Infotech)
- Created a desktop-based lab management solution for handling experiments and records.
- Technologies Used: VB.NET, Microsoft SQL Server

Arduino Voice Control Car | Academic Project
- Built an Arduino-powered voice-controlled robotic car.
- Programming Languages: C++ | Components: Arduino Uno, L293D Motor Driver Shield, Micro Servo Motor, Ultrasonic Sensor, HC-05 Bluetooth Module

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PROFESSIONAL EXPERIENCES

GSFC University   **Jan 2025 - Present**
Academic Associate
As an Academic Associate at GSFC University, I taught **C++ programming** with **Object-Oriented Concepts** to 2nd-semester students, designing lab-based sessions to strengthen their understanding of OOP fundamentals. Currently, I am teaching **C programming** to 1st-semester students, focusing on building strong programming foundations through practical and interactive learning.

Haronex Technology   June 2025 - July 2025
Python Developer Intern
Developed a **Multi-Vendor Tour Package Management System** using the Django framework, implementing features such as vendor registration, package creation, booking management, user authentication, role-based access control, and other core modules with enhanced functionalities.

Oil and Natural Gas Corporation (ONGC)   Dec 2024 - Jan 2025
Machine Learning Intern
As an intern i created a **Live Speech Diarizer and Transcription Model** which can diarize our mono channel audio into separate tracks along with basic preprocessing, it can also Transcribe audio with minimal latency and can be used in many real life scenarios like a CCTV Camera or it can be used to transcribe and summarize an meeting to get insights without attending it.

MaMo TechnoLabs   Dec 2023 - Jan 2024
Graphic Design Intern
As an intern I created a visually appealing social media assets, including posts, reels, and stories, along with banners and logos to enhance brand presence and ensure cohesive identity, while optimizing engagement through content calendar planning using **Figma, Canva, and Illustrator**.

Krivi Infotech   July 2023 - July 2023
Software Intern
Gained hands-on experience in **VB.NET and SQL** by developing a Laboratory Management System, enhancing database management skills and adhering to software development best practices.

TECHNICAL SKILLS

- **Artificial Intelligence & Machine Learning:** Python Libraries that include Flask, Torch, Numpy, Pandas, Matplotlib, Librosa, pyannote.audio, speechrecognition, SpeechBrain, OpenCV
- **Programming Languages:** Python, Java, C++, C, C# Scripting
- **Database Management:** MySQL, Microsoft SQL, SQL Server, MongoDB
- **Design Tools:** Figma, Canva, Illustrator
- **AR-VR:** Unity (completed Unity Essential and Junior Programmer Modules)
- **Web Development:** HTML, CSS, JavaScript
- **Others:** Data Structure & Algorithm, OOPs, Problem Solving

SOFT SKILLS

Leadership, Management, Creativity, Logical Thinking, Communication, Teamwork, Confidence, Adaptability, Time Management, Continuous Learning, Public Speaking, Feedback Acceptance, Networking

EDUCATION

Bachelor of Technology (specialization in AI, ML & DS)   October 2022 - present
Computer Science and Engineering, GSFC University   CGPA: 7.84

Higher Secondary Certificate (Science [P, C, M]) from CBSE   2022
J. B. & KARP Vidya Sankul, Surat   Percentage: 77.8

Secondary School Certificate from CBSE   2020
J. B. & KARP Vidya Sankul, Surat   Percentage: 92.6

CERTIFICATIONS

- Basic Life Support (BLS) Program by Lifeline Foundation
- NPTEL Online Certification in Social Network Analysis
- UAS/Drone Technology by Centre for Development of Advanced Computing (C-DAC)
- Python (Basic): Certified by HackerRank for fundamental Python programming skills.
- SQL (Basic): Certified by HackerRank for foundational SQL knowledge.

HONORS & AWARDS

- Ms. Perfectionist(Ananta'24) for outstanding leadership, innovative thinking, and tireless efforts to drive team success and excellence.
- Winner in TechXhibit'24, the Project Exhibition held at GSFC University.
- 2nd Runner Up in the 400m race at the 1st Annual Athletics Meet organized by the Sports Club, GSFC University.
- 1st Runner-up in the Intra University Volleyball Tournament.
- Winner in a chess competition in the Beginner's Category of the Intra University Chess Tournament. Also played in the semi-finals and quarter-finals of the ICCC and CCL, respectively, organized by Chess.com.
- Best Marketing Team(Ananta'23) for selling the highest number of passes among several teams.
- Best Volunteer(Ananta'23) for my contributions in graphic design, web, and marketing.
- Secured 2nd position in the Best Painting competition organized under the Foundation Course - Colors of Life: 2022-2023.

EXTRACURRICULAR ACTIVITIES & LEADERSHIP ROLES

- Web Committee ICMC, 2nd International Conference by GSFC University
- Advisory, Indian Heritage Club (2025-26)
- Volunteer, AI-SMT, 1st International Conference by GSFC University
- President, Indian Heritage Club (2024-25)
- Creative Head, Ananta'24
- Social Media Head, Elite Management Club
- Marketing and Graphic Volunteer, Ananta'23

ADDITIONAL INFORMATION

- **Research:**
  - Paper titled "Thynk AI: A Smart Web-Based Mini Project Generator" has been published in the Novyi Mir Research Journal (Vol. 10, Issue 5, May 2025 | UGC Care Group-II | Impact Factor: 5.3)
- **Languages:**
  - English
  - Hindi
  - Gujarati