




# Lingamaneni Devansh

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## EDUCATION

### IIIDM Kancheepuram

*B.Tech. Computer Science With Major in AI*

2021-2025

*Current GPA: 7.72*

### Narayana Junior College

*Intermediate*

2019-20

*Marks: 952*

## COURSEWORK

**Courses:** Data science, Machine Learning, Deep Learning, Computer Vision, AI, Reinforcement Learning, DBMS, Object-Oriented Programming, Data Structures & Algorithms, Theory of Computation, Optimization Techniques, Discrete Math, Linear Algebra, Calculus, Probability & Statistics

## SKILLS

**Languages:** C/C++, Python, JavaScript, HTML/CSS

**Tools:** Git/GitHub, Kaggle, Google Colab, VS Code, PyCharm, Hugging Face, Groq Inference

**Frameworks:** streamlit, Flask, Bootstrap, LangChain

**Libraries:** Pandas, NumPy, Matplotlib, Sklearn, Tensorflow, Keras, Pygame, OpenCV, Torch, scipy

**DataBases:** PostgreSQL, MySQL

**Area Of Interest** DL, Generative AI, ML, Computer Vision, NLP, Multi-Agent Systems, LLM-powered Applications

## EXPERIENCE

### Meritshot | Data Science Intern

Mar 2024 - Jun 2024

- Worked on in-depth case studies, research papers, and technical articles, developing strong analytical and research skills in data science.
- Reported directly to the Head of Data Science, gaining valuable experience in remote collaboration and contributing to impactful data-driven projects.

### ESAB India | Software Development Intern

Oct 2024 - Present

- To built an open-source chatbot using Retrieval-Augmented Generation (RAG) to process and search across 22,000+ company manual PDFs, enhancing information accessibility
- Next step to initiated the development of a fine-tuned LLM trained on internal manuals, laying the foundation for a custom company-Large language model.

## PROJECTS

### Twitter Sentiment Analysis | Python, Machine Learning, TextBlob, NLTK, Kaggle Dataset, Matplotlib

GitHub

- Developed a sentiment analysis model to classify tweets as positive, negative, or neutral, using TextBlob for sentiment scoring.
- Preprocessed raw Twitter data by cleaning, tokenizing, and removing noise to improve accuracy and insights.

### Mine Quality Prediction | Machine Learning, streamlit, Data Preprocessing, Mining Industry

GitHub

- Built a machine learning model to predict silica concentration in iron ore, providing real-time insights as an alternative to traditional lab testing.
- Deployed an interactive Streamlit app for visualization and real-time predictions, optimizing decision-making in the mining industry.

- SQL Query Bot | *Google Generative AI (Gemini), MySQL, Python, streamlit*GitHub
- Developed an AI-powered bot using Google Gemini to translate natural language queries into SQL, enabling seamless database interaction.
  - Deployed a Streamlit interface for real-time query execution with MySQL integration, ensuring scalability and secure access through environment variables.
- YOLOv8-Object-Detection-and-Tracking | *YOLOv8, OpenCV, Streamlit, Instance Segmentation*GitHub
- Designed a real-time object detection and instance segmentation system using YOLOv8, supporting video streams, images, and YouTube URLs for precise tracking and analysis.
  - Integrated a customizable Streamlit interface for interactive detection settings and output saving, streamlining video processing workflows.

ACHIEVEMENTS

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Won Cricket Howzat Championship: Played for and supported Team Red Falcons

Feb 2023