RITHVIK MANDA

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EDUCATION

- **VNR Vignana Jyothi Institute of Engineering and Technology**   December 2021 – June 2025
  Bachelor of Technology – Computer Science and Engineering (IoT) – CGPA : 8.23

  Courses: *Data Structures and Algorithms, Object Oriented Programming, Web Development, Database Management System*
  Machine Learning, Software Engineering.

EXPERIENCE

- **Generative AI Engineer (Internship) | Bharat-Tech**   March 2024 – Present
  - **Optimized** models by reducing their size by 66% while improving accuracy through a 5% reduction in loss.
  - **Collaborated** on cutting-edge projects focused on Generative AI and Natural Language Processing (NLP), leveraging the Hugging Face platform for model development and deployment.
  - **Reduced** the model training time by 30% by hyperparameter tuning.

PROJECTS

- **Demand-Based Dynamic Pricing Solution | Data Science |**   **LINK**
  - **Developed** real-time data to predict optimal prices based on demand, resulting in improved revenue and customer satisfaction.
  - **Increased** profit percentage by 74%.
  - **Achieved** significant profit growth through the implementation of RandomForest Regressor.
- **Smart Blog Creation Engine | Generative AI |**   **LINK**
  - **Implemented** a blog generation system featuring 3 key components, utilizing open-source LLM models such as **LLaMA3**, seamlessly integrated with **LangChain** for advanced language processing and **Streamlit** for an intuitive, user-friendly interface.
  - **Designed** to automatically generate both a title and comprehensive blog content based on the provided topic, enhancing content creation efficiency.
- **Trend Sense : AI-Based Fashion Style Recommendation | Deep Learning |**   **LINK**
  - **Developed** a deep learning-based fashion recommendation system to recommend similar clothing items based on images, using the VGG16 model for feature extraction and ImageNet weights.
  - **Enhanced** user experience with personalized recommendations based on cosine similarity between clothing images.
  - Achieved high recommendation accuracy with a **F1-Score** of 0.875, **Precision** of 0.84, and **Recall** of 0.7.
- **Lingua Bridge: Hindi-English AI Translator | Fine-Tuning |**   **LINK**
  - **Engineered and fine-tuned a transformer-based architecture** for high-quality English to Hindi translation, achieving **97% translation accuracy** on the evaluation set.
  - Leveraged **transfer learning** from pre-trained models like BERT and GPT to optimize the model for the Hindi language, minimizing training time while maintaining high performance.

ACHIEVEMENTS

- **DELL-AI-THON** In top 10 teams from the state-level competition **(Sign Language Detection)** – June 2024
- **3-Star** Coder at Codechef. - Present
- Secured Rank 2 in DSA Test by **Smart Interviews –** October 2023

TECHNICAL SKILLS

- **Languages :** Python, Java(OOPS), SQL(Intermediate).
- **Technologies :** Machine Learning, NLP, Data Science, Data Handling.
- **Libraries :** Langchain ,Scikit-learn ,Numpy ,Matplotlib ,Pandas ,Seaborn ,Strealit.

PARTICIPATIONS

- **Amazon ML Challenege** : Led a team of 4 to work on Feature extraction from the images
- **Dell-AI-thon :** Led a team of 3 to work on Sign Language Detection.

POSITION AND RESPONSIBILITY

- **NSS National Service Scheme Volunteer**
  Volunteered in events like blood donation camps and Wall of Kindness, impacting over 500+ needy people.
- **Hackathon Organizer**
  Organized college hackathons with 300+ participants, providing hands-on coding experience and problem-solving skills.