Abhishek Singh

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About

Junior in Computer Science Engineering at Bennett University with two years of academic experience in AI and ML. Proficient in TensorFlow with hands-on project experience. Enthusiastic about GANs and LLMs. Eager to learn and contribute to cutting-edge AI technologies.

Skills

- **Programming:** Python, C++, SQL
- **ML Tools:** TensorFlow, PyTorch, Keras, Scikit-learn
- **Generative AI:** GANs, Model Fine-tuning, RAG
- **NLP:** LLMs, Transformer models, Text embeddings, Sentiment analysis
- **Dev Tools:** Git, Streamlit, Google Colab, Jupyter
- **Other:** Team Leadership, EDA

Experience

Artificial Intelligence Society, Bennett University
NLP Head Aug 2024 – Present
Leading the development of NLP and LLM projects, mentoring and guiding junior team members to ensure successful project execution.

IIIT(Indian Institute of Information Technology) Dharwad
Research & Development Intern Apr 2024 – Aug 2024
Utilising Large Language Model from different Generative-AI techniques to develop different models involving Fine-tuning Model and Retrieval-Augmented Generation (RAG) with Meta's LLaMA to Generate Curriculum-based Problems(Questions), offering significant support to educators globally.

Projects

Sentiment Analysis
GitHub: Sentiment Analysis
Built an RNN-based NLP application. Achieved 88% accuracy and 0.87 F1-score in sentiment prediction.

TEXT-2D-3D
GitHub: TEXT-2D-3D
Implemented text-to-image generation with Stable Diffusion, achieving an inception score of 9.1. Used Hugging Face for 2D-to-3D conversion (SSIM: 0.60).

Disease Recognizer
GitHub: Disease Recognizer
uses sentence embeddings generated by the sentence-transformers/all-MiniLM-L6-v2 model to encode patient symptoms into a high-dimensional space. Achieved 94% precision, 93% recall, and 0.935 F1-score.

Education

Bennett University
B.Tech in Computer Software Engineering Sep 2022 – Apr 2026

Certifications

- Introduction to Computers and Operating Systems and Security
- Hands-On Generative AI: From Concepts to Implementation
- Unsupervised Machine Learning
- Sample-based Learning Methods
- Exploratory Data Analysis for ML