SNEHASISH DEY

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EDUCATION

Indian Institute of Information Technology, Design and Manufacturing, Jabalpur 2024 - 2026
Masters of Technology in Computer Science and Engineering
- *Specialization in Artificial Intelligence and Machine Learning*

The Government College of Engineering and Leather Technology 2020 - 2024
Batchlor of Technology in Information Techology *GPA - 9.1*

INTERNSHIP EXPERIENCE

Telerapps Private Limited

- Work as Machine Learning Intern developing transformer based models for AI in healthcare projects such as medical image processing, clinical data analysis and deploying them into production.
  Technology used: Med-Gemini, TrOCR, GPT.

Omdena

- Work as Machine Learning Intern in the model development team in Omdena (repository link). I contributed in the seq-to-seq model development for text summarization, using transformer based architectures.
  Technology used: T5, BERT, and Bloom.

SKILLS

Languages: Python, C, C++, SQL, Java,
Frameworks: Tensorflow, Keras, Pytorch, sci-kit learn, Flask
Libraries: Huggingface transformers, nltk, numpy, pandas, pickle, lime, matplotlib, seaborn, gradio
Database: SQL(Relational), MongoDB
Relevent Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System.
Areas of Interest: Generative AI, Computer Vision, NLP, LLMS, Transfer Learning
Soft Skills: Prompt Engineering, Googling, English, Problem Solving, Leadership, Self-learning, Presentation

PROJECTS

- **AI-Based Robot Monitoring System**
  - Developed a lightweight AI model for real-time monitoring of welding robots using CCTV footage.
  - Trained a hybrid-based model with a MobileNet backbone, and optimized for deployment on edge devices.
  - Technology Used: YOLO , OpenCV , MobileNet
- **Dual Selective Attention Model for Sentiment and Emotion Identification with Explainable Cause Generation** (Conference link)
  - Generative AI model utilizing text-to-text generation and dual selective attention mechanisms achieves 93% accuracy in sentiment and 81% in emotion identification, surpassing traditional machine learning models.
  - Technology Used: FaceBook BART, FinBERT, Pytorch and Sci-kit learn.
- **Cyrillic Malicious URL Detection** (Conference link)
  - Web phishing, a social engineering attack, exploits individuals by deceiving them into divulging login information, with Cyrillic URLs posing an increasing threat beyond English-speaking users.
  - We scraped 100,000 Cyrillic URLs and classify it using CNN, Bi-LSTM, GRU and achived 93% accuracy.

CERTIFICATIONS

- Python and Statistics for Financial Analysis
- Data Science Math Skills