Surya Narayan Prasad

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SuryaAnything SuryaNarayan

EDUCATION

Visvesvaraya National Institute of Technology Nagpur, Maharashtra
Bachelor of Technology in Computer Science and Engineering Sept, 2026
Cumulative GPA: 9.03 / 10.00

Delhi Public School Ranchi, Jharkhand
Class XII, (CBSE) 97.2% May, 2021

St. Francis School Ranchi, Jharkhand
Class X, (ICSE) 95% May, 2019

PROJECTS

Face Recognition Model
Implemented a model leveraging Siamese neural networks and CNN architecture
- Utilized Siamese networks for their effectiveness in measuring the similarity between two images, crucial for verification and identification tasks. GitHub
- Implemented a contrastive loss function to optimize the model, ensuring accurate discrimination between similar and dissimilar images.
- Successfully trained the model on a Olivette face dataset containing pairs of facial images, achieving high accuracy in identifying and verifying individuals.

Huffman Coding for Data Compression
Implemented Huffman coding a widely-used algorithm for lossless data compression.
- The project aimed to reduce the overall size of encoded data by replacing longer bit sequences with shorter codes for commonly occurring characters. GitHub
- The project's implementation of Huffman coding provides a practical solution for reducing storage space and transmission bandwidth requirements in diverse applications, including data compression, file archiving, and communication systems.

Collaboratory Document Editor
Spring Boot application for secure, collaborative document management.
- Secure user authentication and authorization with CRUD operations for documents stored in MongoDB. GitHub
- Integration with Text Razor API for text analysis and summarization.
- It enables secure collaboration on documents in corporate environments while supporting educational institutions in managing academic documents effectively.

Neural Machine Translation (Seq2Seq)
Implements a Seq2Seq model with attention for translating Ger to Eng and Hin to Eng.
- This project uses LSTM-based encoder-decoder architecture with attention for accurate neural machine translation. GitHub
- It streamlines document translation across different languages facilitating efficient collaboration.

TECHNICAL SKILLS

Languages: C/C++, Java, Python
Developer Tools: Spring Boot (Basics), PyTorch, CMake, Git, Linux, VS Code, IntelliJ
Interests: AI, Web, Machine Learning, Deep Learning

ADDITIONAL SKILLS

Adaptability: Flexibly navigating AI evolution through deep learning and NLP exploration.
Teamwork: Coordinated with my team during a college hackathon to tackle a shared challenge.