Subhranil Nandy

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🎓 Education

Indian Institute of Engineering Science and Technology (IIEST), Shibpur, Howrah,   2022 – 2026
B.Tech, Information Technology (IT) ⎘
  CGPA 9.31/10 | Upto 4th Semester

M. C. Kejriwal Vidyapeeth, Liluah, Howrah, *ICSE, ISC* ⎘
  ICSE(X) – 96.6% (2020)
  ISC(XII) (PCM, CS and English) - 96.5% (2022)

💼 Experience

Indian Institute of Technology, Kharagpur, *Summer Research Intern* ⎘   May 2024 – Jul 2024
  • Dept.: Center of Excellence in Affordable Healthcare (CoE-AH) ⎘   Kharagpur, West Bengal
  • Working on smart healthcare edge devices for measuring a person's vital signs.

📂 Projects

Facial Emotion, Age and Gender extraction from Raspberry Pi based Video Surveillance with low cost webcams, *Raspberry Pi 3B+, OpenCV, Tensorflow, Python*   Mar 2024 – May 2024
  • Conceptualised an edge device consisting of Raspberry Pi integrated with a webcam.
  • Created lightweight models using **Tensorflow lite (.tflite) models** to recognize gender, emotion and age from **real-time** videos captured using the webcam (edge device).

MNIST Handwritten Digit Classification Web app,   Mar 2024 – May 2024
Tensorflow, Pandas, Matplotlib, Python | Link ⎘
  • Used Data augmentation, Deep Neural Network(DNN) and CNNs (Hosted using Streamlit)

Classification of Chest X-Ray images, *Tensorflow, Pandas, Matplotlib, Python*   Ongoing (Hobby)
  • Preprocessed and augmented images. Implemented CNN and used transfer-learning models like VGG16 and InceptionV3.
  • Currently, fine-tuning the models to achieve efficient performance.

🧠 Technical Skills

Languages and FrameWorks :, *Java, Python, C, MATLAB, TensorFlow, Keras, scikit-learn, OpenCV*

Tools and Technologies:, *VS Code, JupyterLab, Anaconda, Linux, Git and GitHub, Raspberry Pi, Arduino*

📰 Publications

Deep Feature Learning for Detecting Water Pollution from Industrial Waste,   2024
Sneha Singh, Suranjana Saha, Subhranil Nandy, Dr. Mahua Nandy Pal, Dr. Tien Anh Tran
  Accepted in 8th International Conference On Emerging Applications of Information Technology, 2024, Kolkata. Will be published in "Lecture Notes in Networks and Systems", Springer Nature (In press)

🏅 Achievements

Jagadish Bose National Science Talent Search (JBNSTS) Scholarship   2021 – 2022
  Among the 203 Junior Scholars selected for the JBNSTS Junior Scholarship from West Bengal in 2020.

Test Ranks   2022
  • JEE Advanced: AIR 5556
  • JEE Main: AIR 12943
  • WBJEE: Rank 843

📚 Courses

Advanced Learning Algorithms, *DeepLearning.AI | Certificate* ⎘

Machine Learning Crash Course with TensorFlow APIs, *Google* ⎘

Quantum Explorers (Using Qiskit SDK), *IBM | Badge* ⎘

🎸 Interests

Synthesizer • Fitness Enthusiast • Singing • Reading