Pranay Saha

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LeetCode

PROFESSIONAL EXPERIENCE

Indian Statistical Institute, Research Fellow *⊘*

May 2023 – present

 We designed a novel symmetry-based method for Person-Vehicle Reidentification using a Neural Network trained on 4 datasets. Kolkata, India

- Orchestrated the design and implementation of **data ingestion, model and inference pipelines**, Utilized pre-trained models, for text spotting, and fine-tuned them to improve performance on 60000+ images.
- Implemented and optimized data cleaning pipelines, reducing data cleaning time by 30%.
- Conducted a **comparative analysis, demonstrating an approximately 8% improvement in accuracy** compared to existing models (State-of-the-Art).

Yubky, Machine Learning Engineer

Feb 2023 – present

• Led the ML team and collaborated with 10 developers in the strategic development of Facial Recognition, Liveliness, Speech, and Audio Processing for Video KYC.

- Implemented **information extraction from documents and analysis**, contributing to a comprehensive and state-of-the-art KYC solution.
- Designed and secured an efficient KYC system, achieving a remarkable cost reduction from \$130 to \$4 per verification.

Remote

PROJECTS

FACE2COMIC *⊘*

- Developed a **Generative model for generating comic avatars from original face images.** Leveraged the adversarial learning concept to achieve a **3%** noise reduction and seamless blend of realism and artistic expression.
- My contributions resulted in the successful development of a model for generating high-quality, comical avatars that can be used in various applications, such as social media and entertainment.

Signature Verification *⊘*

- Created a Neural Network for signature verification that achieved an impressive accuracy rate of **96.5%** on a dataset of 5000+ signature samples.
- Analyzed the generated embeddings for both real and forged signatures and compared them for verification, resulting in a 7% reduction in false positives.
- The model can be fine-tuned and used in various industries for signature verification, resulting in increased efficiency and reliability.

EDUCATION

B-Tech -CSE(AIML), Institute of Engineering Management CGPA-9.01

Nov 2020 – Aug 2024 Kolkata, India

Courses: Data Structures and Algorithms, Machine Learning, Pattern Recognition, Database Management System, Object Oriented Programming

⊗ SKILLS

Languages (Python, Java, SQL)

Technologies/Frameworks (Git, Docker, MongoDB, Postman, PyTorch, TensorFlow, Keras, Weights and Bias, Scikit-Learn, Open-CV)

POSITION OF RESPONSIBILTY ■

GDSC AIML Lead Aug 2022 – Aug 2023

E-Cell R&D Member Sep 2021 – Oct 2022

Sponsorship Team Lead IEM MUN Sep 2022 – Oct 2022

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