Pretam Chandra

Coder || Developer || Leader || Problem Solver || Explorer || Quick Learner || Resilient

CONTACT ME

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📍 West Bengal, India

EDUCATION

B.tech (CSE) - CGPA : 9.63/10
Adamas University, Kolkata
2019 - 2023

Senior Secondary : 90.2%
Kendriya Vidyalaya Ordnance Factory, Dum Dum, Kolkata
2017 - 2019

Secondary - CGPA : 10/10
Kendriya Vidyalaya Miao, Arunachal Pradesh
2015 - 2017

SKILLS

TECHNICAL SKILLS

- ➤ C/C++ ★★★★☆
- ➤ Python ★★★★☆
- ➤ MySQL ★★★★☆
- ➤ PIL/Pandas/NumPy ★★★★☆
- ➤ Tableau/MS Excel ★★★★☆
- ➤ PyTorch/PyQt6 ★★★★☆

SOFT SKILLS

- ➤ Communication ★★★★☆
- ➤ Leadership ★★★★☆
- ➤ Adaptability ★★★★☆

WORK EXPERIENCE

- **Research Intern** July 2022 - Sep 2022
  Jadavpur University | Kolkata

  The objectives of the research were to generate a 40x image from a 4x image and to automatically register microscopic images at various magnification levels. Our threshold overlap margin was 90%. In addition to PyTorch and image processing concepts, deep learning models like CNN and GAN were utilized.

PROJECTS

- **Title — Refinement of Digital Image Sharpening and building a GUI-based Front-end** Oct 2022 - Jan 2023

  The improvement of digital image sharpening in this work makes use of transfer learning. The model is saved in (.pt) format. Further, PyQt6 is used for developing the GUI-based front-end.

- **Title — Cytological Image Sharpening using Deep Learning** Jan 2023 - June 2023

  In comparison with filter-based sharpening, the model we used to create Super Resolution of Cytological Images exhibits significantly less MSE loss. Further, the Refined Network and Hierarchical Convolutions models we developed produced images with better PSNR and SSIM values when combined to the pre-existing SRGAN model.

- **Title — Provide Insights to the Marketing Team in Food & Beverage Industry** July 2023 - Present

  The project encompassed data cleaning, database querying, and visualization to generate insights for the marketing team. On a CSV dataset, cleansed the data, executed MySQL queries for data analysis, and presently creating few visually informative dashboards using Tableau.

PUBLICATIONS

- Nag, A., Mobin, G., Kar, A., Bera, T., & Chandra, P. (2023, May). A Review on Cloud-Based Smart Applications. In Intelligent Systems Design and Applications: 22nd International Conference on Intelligent Systems Design and Applications (ISDA 2022) Held December 12-14, 2022-Volume 1 (pp. 387-403). Cham: Springer Nature Switzerland.
- Nag, A., Nath, B. K., Sil, R., & Chandra, P. Blood In Need: An Application for Blood Management.

ACHIEVEMENTS

- **GATE 2022 (Qualified!!)**
  Score :- 425/1000
  Marks :- 30.67/100
  All India Rank :- 5555
- **Cluster Level Social Science Exhibition - 2015/2016**
  Debate (English) - 2nd

- **Dean's List Student (SOET, Adamas University) - 2019/2023**
  Awarded for exemplary Academic Excellence during the period and the ability to rise to the workload.
- **Signifiya 2022 (Adamas University TechFest)**
  Advanced Level Coding Competition - 1st
- **STAIR 2023**
  Participated in "International Student Symposium"

LANGUAGES

- English ★★★★☆
- Hindi ★★★★☆
- Bengali ★★★★☆
- Assamese ★★★☆☆

CERTIFICATES

- **5-Day International Workshop On Data Science and its Applications** - by Adamas
- **Artificial Intelligence for Students** - from LinkedIn Learning
- **Python for Everybody** - from Coursera