ANKITA BOSE

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Objective

I am eager to apply my knowledge and skills in a dynamic environment. I seek to contribute to a team where I can learn, grow, and help achieve company goals through my enthusiasm, strong work ethic, and willingness to take on new challenges.

Education

- **Institute Of Engineering & Management (IEM), Kolkata, West Bengal** 2024
  MCA
  82.50%

- **Raja Narendra Lal Khan Women's College (Autonomous), Paschim Medinipur, West Bengal** 2022
  Graduation (B.Sc. in Computer Science)
  86.80%

- **Vidyasagar Vidyapith Girls' High School (H.S), Paschim Medinipur, West Bengal** 2019
  Higher Secondary
  83.00%

- **Vidyasagar Vidyapith Girls' High School (H.S), Paschim Medinipur, West Bengal** 2017
  Secondary
  72.57%

Skills

- PYTHON
- DBMS
- SQL
- HTML
- CSS

Projects

- **1) Pneumonia Detection Using CNN**
  I worked on a project to develop an automated system that detects pneumonia from chest X-ray images using deep learning models. This system was built as part of my Master's program and used CNNs (Convolutional Neural Networks) to classify X-rays as either showing signs of pneumonia or normal.

  My role involved: Team Member.

  Data Preprocessing: Cleaning and improving image quality by cropping unnecessary parts, reducing noise, and focusing on the lung regions using K-means clustering.

  Model Development: I helped design and train the CNN model to accurately detect pneumonia from X-ray images. This included using deep learning methods and testing the model for accuracy.

  Image Analysis: I applied a unique trapezium method to better identify and measure the infected areas in the lungs.

  Outcome: The model achieved 81% accuracy, significantly improving detection performance over earlier methods.

  Tools & Technologies Used: Python, TensorFlow, Keras, Jupyter Notebook, Kaggle datasets, Visual Studio Code.

  Skills Acquired: Machine Learning, Image Processing, CNN Model Training, Data Analysis, Medical Imaging.

This project gave me practical experience in applying AI technologies to solve real-world healthcare problems.

Colab Link:
https://colab.research.google.com/drive/1HgdfKNaDyrSO_wc1YOSfDxSEEgnMC-wl?usp=sharing

Kaggle Link:
https://www.kaggle.com/code/ankitabose1/lungs-segmentation/edit/run/198803749

Activities

- Course on "IBM Data Science" from Coursera.
- Course on "Machine Learning with Python: Foundations" from LinkedIn Learning.
- Workshop on Python & it's Applications. Organized by:- Institute of Engineering & Management.

Languages

- Bengali
- English
- Hindi

Declaration

- I solemnly declare that all the above information is correct to the best of my knowledge and belief.