AMIT BERA

Student | MSc in Big Data Analytics | BSc in Mathematics

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INTRODUCTION

A highly motivated student with a strong foundation in Big Data Analytics and Mathematics. Passionate about Deep Learning, Computer Vision, and Artificial Intelligence, with hands-on experience in both academic and real-world projects. Seeking opportunities to apply analytical and technical skills in a challenging environment.

ACADEMIC PROJECTS

- **Synthesis of Talking Face with Emotion from Image and Generated Speech**
  PyTorch | VGG-19 | WGAN | OpenCV   (Aug 2024 - Ongoing)
  - Developed a model to synthesize a talking face with emotions based on an image and generated speech from text. Extracted emotions frame-by-frame from video files covering various emotional expressions.
  - Combined an image with generated speech to create a video output reflecting the intended emotion.

- **LawGPT : AI-Powered Legal Guidance for the Indian Constitution**
  LLM | NLP | LegalBERT   (Aug 2024 - Ongoing)
  - Developed an AI-driven model to simplify legal information from the Indian Constitution.
  - Fine-tuned a GPT-based model using Indian legal data; deployed a chatbot for legal queries.

- **Fish Farming Prediction**
  Python | Pandas | Scikit-learn   (Mar 2024 - May 2024)
  - Processed and visualized environmental data (pH, temperature, turbidity) to assess its impact on various fish species, identifying key factors for optimal growth.
  - Evaluated and deployed the most effective machine learning model, integrating it into a mobile-based UI for real-time predictions to enhance fish farming efficiency.

- **Bayesian River Classification using Satellite Images**
  Python | OpenCV | NumPy | Bayesian Model   (Feb 2024 - Mar 2024)
  - Processed satellite images using Python to develop a classification system.
  - Implemented a Bayesian decision rule to distinguish river and non-river areas.

- **Startup Funding Analysis**
  R | dplyr | ggplot2 | readxl   (Sep 2023 - Oct 2023)
  - Performed Exploratory Data Analysis (EDA) on startup funding data using R, leveraging 'dplyr' for data manipulation, 'ggplot2' for visualization, and 'readxl' for data import.
  - Consolidated industry categories and visualized funding trends.

AREAS OF INTEREST

Deep Learning   Machine Learning   Artifical Intelligence   Computer Vision   Time Series Forecasting   Database Management   Exploratory Data Analysis

TECHNICAL SKILLS

- **Programming Languages :** Python   R   C
- **Tools & Technologies :** MySQL   Hadoop   Spark   Neo4j
- **Libraries & Frameworks :** Numpy   Pandas   Matplotlib   ggplot2   PyTorch   TensorFlow   Scikit-Learn   OpenCV

EDUCATION

MSc in Big Data Analytics
Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah
📅 Aug 2023 – Present

BSc in Mathematics
Vidyasagar College, Kolkata
📅 Sept 2020 – May 2023   CGPA: 7.29

Higher Secondary (WBCHSE)
Chaipat High School, Paschim Medinipur
📅 2020   88.6%

Madhyamik (WBBSE)
Kheput High School, Paschim Medinipur
📅 2018   93.71%

COURSEWORK

- Optimization for Machine Learning
- Statistics
- Probability and Stochastic Process
- Programming for Data Science
- Linear Algebra and Matrix Computation
- Machine Learning
- Data Structures and Algorithms
- Computer Vision
- Time Series and Survival Analysis
- Distributed Computing
- Deep Learning and NLP
- Multivariate Statistics
- Artificial Intelligence
- Database Management System
- Econometrics and Finance

ADDITIONAL SKILLS

- **Communicative Languages :** English, Bengali, Hindi
- **District-Level Quizer   District-Level Painter   Sports Enthusiast   Event Organizer**

CERTIFICATES

Neo4j Certified Professional in GraphAcademy

SQL (Intermediate) in HackerRank

Python (basic) in HackerRank

RESPONSIBILITY

- Logistics Team Member for Perceptron'24, RKMVERI
- Gaming Team Lead for Perceptron'25, RKMVERI
- Class Representative, Kheput High School