

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 Artificial 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