

ARITRA PAL

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SKILLS

Languages:

C • C++ • Python • Java
HTML • CSS • JavaScript • Typescript
• PHP • SQL

Front-end Frameworks:

ReactJS • AngularJS • NextJS • EJS •
Bootstrap • Tailwind CSS

Back-end Frameworks:

ExpressJS • NodeJS • Spring • Flask

Other Technologies & Tools:

Postman • Firebase • MongoDB •
Postgresql • Linux • Docker • Git •
GitHub • Wordpress • Drupal • Jupyter
Notebook • Pandas • Numpy • Seaborn •
Matplotlib • PyTorch • TensorFlow •
Scikit-Learn • PyCharm • AWS S3 •
Athena • EC2

CODING PROFILES

Codeforces:// **ARITRA_88_CDF**

CodeChef:// **ap11111**

Leetcode:// **ARITRA_947**

COURSEWORK

Object Oriented Programming
Data Structures and Algorithms
Machine Learning
Data Mining
Full-stack Web Development

EDUCATION

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR (IIEST)

B.TECH. IN COMPUTER SCIENCE AND TECHNOLOGY

2022-2026 | Howrah, West Bengal,
India

CGPA:7.32/10

BURDWAN MUNICIPAL HIGH SCHOOL

HIGHER SECONDARY EDUCATION - WBCHSE BOARDS

2021-2022 | Purba Burdwan, West
Bengal, India

Percentage:88.2%

EAST WEST MODEL SCHOOL
SECONDARY EDUCATION - ICSE BOARDS

2019-2020 | Purba Burdwan, West
Bengal, India

Percentage:95.5%

EXPERIENCE

GIRLSSCRIPT SUMMER OF CODE 2024 | May 2024-August 2024

- I am a contributor in this open-source program.

SOCIAL SUMMER OF CODE 2024 | June 2024-August 2024

- I am a contributor in this open-source program.

PROJECT WORK

COMMENT TOXICITY LEVEL DETECTION

|TensorFlow|Pandas|Matplotlib|Scikit-learn|Gradio|BI-LSTM
[View GitHub]

- Developed a model to classify toxic comments into six categories (toxic, severe toxic, obscene, threat, insult, identity hate) using the Jigsaw Toxic Comment Classification Challenge dataset.
- Vectorized text data using TextVectorization, split into training (70%), validation (20%), and test sets (10%), and optimized for efficient training with caching, shuffling, batching, and prefetching.
- Trained the model using Binary Crossentropy loss and Adam optimizer for 1 epoch and saved the trained model and created an interactive Gradio interface for real-time toxic comment classification.

SPAM MAIL PREDICTION SYSTEM

|NumPy|Pandas|Scikit-Learn|Python
[View GitHub]

- Preprocesses SMS data, extracts TF-IDF features, and predicts spam or ham messages efficiently.
- Achieved 96.7% training and 96.6% test accuracy using logistic regression and TF-IDF.

WHATSAPP CHAT ANALYZER | Python

[View GitHub] | [View Live]

- An application for data analysis of Whatsapp Chats built using Python.
- It provides detailed analytics including message and word counts, media and link sharing statistics, monthly and daily timelines, activity maps, user activity rankings, word clouds, common words, emoji analysis, and graphical representations where applicable.

HOSPITAL MANAGEMENT SYSTEM | MongoDB|Express JS|React JS|Node JS

[View GitHub]

- Responsive Hospital Management System using MERN Stack with features : authentication, authorization, CRUD operations, sign-in/sign-up, appointment booking, and admin dashboard for managing appointments and doctors.
- Supports multiple JSON web tokens, appointment status management, and admin/doctor registration.

STATISTICS OF PROGRAMMING PLATFORMS

Codeforces: Pupil(max 1351 rating), 150+ problems solved
CodeChef: rating 1648, 3 stars(Highest Rank: Global Rank 19 in Starters 136 Division 3)
Leetcode: 100+ problems solved