

# ARITRA PAL

linkedin.com/in/aritra-pal200402 | github.com/IAMAP842 | Portfolio Website  
aritrpal116@gmail.com | +919547859814 | West Bengal, India

## 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:7.38/10

**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