

# ARUNIMA BARIK

arunimabarik7502@gmail.com | LinkedIn | GitHub

## EXPERIENCE

### DE SHAW INDIA | TECHNOLOGY ANALYST INTERN

Jun 2023 – Aug 2023 | Hyderabad

- Worked in Data Technologies related team in Front Office
- Accelerated short SQL queries using Apache Ignite
- Current software Apache Spark takes 1-2 minutes to execute a short query
- Developed a caching layer above the existing database

### GOOGLE | SOFTWARE STEP INTERN

May 2022 – Aug 2022 | Bangalore (Remote)

- Worked in Google CloudSearch team
- Designed ingestion flow for FAQs and answers
- Worked on existing architecture of data sources and search applications

## PROJECTS

### CIFAR-10 IMAGE CLASSIFICATION | ML HTML CSS JS

Nov 2022 | GitHub Link

- Takes an image and classifies it into one of the 10 classes
- Uses Histogram of Oriented Gradients (HOG) for feature extraction and Principal Component Analysis (PCA) for Dimensionality Reduction

### BANKER'S ALGORITHM | HTML CSS JS

Apr 2022 | Website Link

- Generates Safe Sequence for multiple resource requests
- Checks for further resource requests to avoid deadlock

### URL SHORTENER | FLASK SQLALCHEMY HTML BOOTSTRAP

Apr 2022 | GitHub Link

- Encodes a long URL into 6 length alphanumeric string
- Stores the long and corresponding short url in database

### CUSTOMER SEGMENTATION | UNSUPERVISED ML

Oct 2021 | GitHub Link

Clusters customers on the basis of their income and expenditure

## SKILLS

**Proficient** C++ | Python | HTML | CSS | SQL | Data Analysis

**Familiar** Java | JavaScript | Bootstrap | ReactJS

## ACHIEVEMENTS

- Recipient of Dewang Mehta IT Awards 2023 for Second position among all B.Tech CSE students
- Secured Second position in MINeD Hackathon 2023 under D360 track organised by Nirma University | Certificate Link | GitHub Link
- Secured Third Rank in B.Tech First Year
- CodeChef March Cook Off (Div 2) Global Rank 629
- Codeforces Round 784 (Div 4) Rank 1181

## EDUCATION

### NIRMA UNIVERSITY

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Nov 2020 – Jun 2024 | Ahmedabad, Gujarat  
9.31 / 10.0

### KOKILABEN DHIRUBHAI AMBANI VIDYAMANDIR

CLASS 12

Apr 2019 – Mar 2020 | Jamnagar, Gujarat  
97% | School Rank 5

CLASS 10

Apr 2017 – Mar 2018 | Jamnagar, Gujarat  
98% | School Rank 2

## CODING PROFILES

Codeforces: Specialist (1467) arunimabarik

CodeChef: 3 star (1719) arunimabarik

LeetCode: arunimabarik

HackerRank: ArunimaBarik

## COURSEWORK

Machine Learning | Deep Learning

Data Structures and Algorithms

Object Oriented Programming

Operating Systems

Database Management Systems

Computer Networks

## CERTIFICATION COURSES

### ACCELERATED CS FUNDAMENTALS

| UNIVERSITY OF ILLINOIS

Jan 2023 | Certificate Link

### MATHEMATICS FOR MACHINE

LEARNING | IMPERIAL COLLEGE LONDON

Jan 2023 | Certificate Link

## CLUBS

### COMPUTER SOCIETY OF INDIA |

VICE PRESIDENT | NOV 2022 – SEP 2023

Organised events to uplift technical and interpersonal skills

### CODEADDA CLUB | CLUB DIRECTOR |

OCT 2021 – NOV 2022

Conducted coding contests and taught competitive programming concepts