

Subhajoy Ghosh

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EDUCATION

JADAVPUR UNIVERSITY

BE IN INFORMATION TECHNOLOGY

Jul 2024 | Kolkata, India

CGPA: 7.63

S.A.I.E

2020 | Kolkata, India

ISC | Class XII

Percentage: 92.75

S.A.I.E

2020 | Kolkata, India

ICSE | Class X

LINKS

Github:// [Subhajoy4831](#)

LinkedIn:// [Subhajoy Ghosh](#)

COURSEWORK

UNDERGRADUATE

Data Structure and Algorithms

Database Management and Systems

Artificial Intelligence

Software Engineering

Full Stack Development

Object Oriented Programming

Cloud Computing

Cryptography

Computer Networks

Machine Learning

Operating Systems

SKILLS

TECHNICAL

Languages:

Python • Javascript • SQL • Pyspark

Tools and Technologies:

Git • Github • Kaggle • Jupyter

Notebooks • Power BI • ReactJS • NextJS

• Supabase • Firebase

Cloud Platforms:

AWS • Azure • Databricks

AI/ML:

Scikit-learn • TensorFlow • PyTorch

Keras • XGBoost

EXPERIENCE

DELOITTE TTL INDIA | DATA ENGINEER INTERN

Aug 2024 - Present | Bengaluru, India

- Acquired proficiency in **Python** and **SQL** during the internship.
- Gained hands-on experience with cloud platforms: **Azure** and **AWS**.
- Handled Data Warehousing solutions and tools.
- Developed data visualization skills using **Power BI** and **Tableau**.
- Analyzed real-world case studies focusing on data analytics and cloud-based solutions.

PROJECT

ELLIPTICAL CURVE CRYPTOGRAPHY CALCULATOR 2023 – 2024

- Implemented **point addition, doubling, and multiplication** for elliptic curve operations on the Short Weierstrass form in ECC.
- Developed **Baby-Step Giant-Step (BSGS)** algorithm for discrete logarithm problems in elliptic curve cryptography.
- Utilized **Django** framework and **Python** to integrate elliptic curve cryptography functionality into web applications.
- **Live** and **Github repo**

MACHINE LEARNING 2023 – 2024

- Developed and implemented Machine Learning models including various **classifiers** (e.g., Decision Trees, SVM, Random Forest) and **Neural Networks** (CNN, ResNet50) for predictive analysis.
- Worked on **Generative Adversarial Networks (GANs)** to generate synthetic data and improve model robustness.
- Analyzed multiple datasets including Breast Cancer, CIFAR-10, MNIST (Modified National Institute of Standards and Technology database), image classification, object recognition, and fraud detection.
- Used **Python libraries like TensorFlow, Keras, and Scikit-learn** to implement models and assess results.
- **Github repo**

SOCIAL MEDIA PLATFORM 2024

- Developed a **scalable social media platform** enabling users to create and manage posts, including text, categories, and images, with robust file validation and storage integration via Supabase
- Implemented a **dynamic home feed** that displays posts from friends' profiles, updating seamlessly in real-time with Supabase queries and API calls.
- Integrated **friendship functionality** to manage relationships between user profiles, allowing for personalized content feeds.
- Utilized **Firebase Authentication** for secure user sign-in and session management, improving platform security.
- Built a **likes and comments system** with efficient backend updates to track per post, ensuring consistent user interaction data.
- **Enhanced user experience** by implementing real-time search, modal-based post creation, and responsive UI components.
- **Live** and **Github repo**