

Gitika Jha

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EDUCATION

Boston University, Graduate School of Arts and Sciences Boston, MA
Master Of Science in Computer Science - GPA: 3.70 Jan 2024
University of Mumbai, K.J. Somaiya Institute of Information Technology Mumbai, India
Bachelor of Technology in Information Technology - GPA: 3.90 May 2022

SKILLS

Programming Languages: Python, Java, SQL, JavaScript, HTML, CSS, C, C++, R
Libraries & Frameworks: TensorFlow, PyTorch, Django, Flask, React, Node.js, pandas, NumPy, Langchain
Tools: AWS, Azure, Power BI, Tableau, Microsoft Office, Git, Docker, Snowflake, Kubernetes, MySQL, MongoDB
Coursework: Advanced Data Structures & Algorithms, Advanced Data Management, User Centric Data Science
Certificates: IBM Data Science Professional Certificate

EXPERIENCE

Image & Video Computing Lab - Boston University Boston, MA
Machine Learning Research Intern Jun 2023 - Jan 2024

- Drove research in **personalization in image stylization in generative models**, increasing model scalability and reducing training times by 60% in **Tensorflow**
- Improved style transfer **model accuracy by 12%** through effective metric evaluation, including CLIPScore
- Conceptualized & conducted **AI workshops** to empower **25 high school women** as chief coordinator for **AI4ALL**

Indian Society for Technical Education Mumbai, India
Software Engineer & Data Analyst May 2021 - Jan 2022

- Managed a team of 4 for the **membership portal** development, improving user engagement using **React & Node.js**
- Built **admin dashboard**, streamlining management of **140,000 life members** and **1.5 million student members**

C-Edge Technologies - Tata Consultancy Services & State Bank of India Mumbai, India
App Development Intern Dec 2019 - Jun 2020

- Engineered a critical mobile app for government operations with **Android Studio**, **enhancing data accessibility**
- Revolutionized user experience by implementing **intuitive navigation**, leading to a 30% increase in user satisfaction

PROJECTS

Finding the Right Primary Care Physician - Civic Tech Hackathon Feb 2024

- Developed a sophisticated platform to match patients with primary care physicians using **collaborative filtering**
- Implemented location-based search and personalized onboarding using **React, Node.js, FastAPI & Tensorflow**

Atfal Mafkoda – Finding Missing Children using Machine Learning Sep 2023 - Dec 2023

- Pioneered an end-to-end ML Deepface pipeline for facial recognition in **Python**, deployed on **Streamlit**, achieving a **0.87 AUC** and boosting the identification accuracy of missing children in diverse environments

Originality Score Project: Is a document written by AI? Jan 2023 - Mar 2023

- Designed a model to differentiate human-written from AI-generated texts using DetectGPT, GPTZero, and OpenAI
- Devised a **Multi-layer Perceptron** model classifying text origins with **73% accuracy**

Full Stack Bank with Event Sourcing Nov 2022 - Mar 2023

- Engineered a real-time transaction processing component for a core banking engine using event-sourcing principles
- Utilized **Spring Boot** for backend development, **MySQL** for persistent storage
- Ensured scalability and optimization for **microservices architecture, logging, & RESTful API design**

Self-Supervised Learning for Breast Cancer Image Analysis Jun 2021 - Feb 2022

- Led the innovation of a novel interpretable ML model for classifying breast cancer from MRI scans with a **96.7% accuracy rate**, applying self-supervised learning techniques; published in **Taylor & Francis' xAI for Healthcare book**

ACTIVITIES & LEADERSHIP

Grace Hopper Celebration '23 Orlando, FL
Fully-Sponsored Scholar Sep 2023

- Represented Boston University's Computer Science Department among a competitive pool of over **150 applicants**

Computer Society of India Mumbai, India
Secretary May 2021 - May 2022

- Organized and **curated numerous workshops and seminars** on diverse computer science topics
- Volunteered** regularly to teach computer science basics and C++ to underprivileged students

Students' Council - University of Mumbai Mumbai, India
President Jan 2021 - Jan 2022

- Led over **150 students** in organizing cultural, sports, and fundraising events, **increasing event frequency by 25%** and **boosting fundraising efforts by 30%**, through effective team and resource management