Nibir Joydhar

📞 +8801521546883   ✉ nibirjoydhar@gmail.com

📍 Wari, Dhaka, Bangladesh   🎂 21 Dec 2002   in nibirjoydhar

⬡ nibirjoydhar   🔗 portfolio

🎓 Education

Bachelor of Science in Computer Science and Engineering (BSc in CSE)
Jagannath University
Jan 2020 – present | Dhaka, Bangladesh
  CGPA: 3.53 (up to 4th Year, 1st Semester)

🧠 Research Work (Ongoing)

Vulnerability Detection in C/C++ Source Code Using VulBERTa
  Exploring C/C++ vulnerability detection with VulBERTa (RoBERTa-based). Developed hybrid tokenization (BPE + code tokens) and fine-tuned VulBERTa variants (MLP, CNN) on benchmark datasets (e.g., Vuldeepecker, Draper), achieving top-3 results on CodeXGLUE and D2A.
  Technologies: Python, PyTorch, Transformers, Scikit-learn, TensorFlow, Clang, MLflow, Git, Jupyter

📂 Projects

◆ **Smart Lock System**
A biometric smart lock with fingerprint authentication and smartphone access.
  Key Features: Fingerprint Recognition, Smartphone Control, Multi-Access Options, Activity Logs
  Technologies & Components: Arduino Uno, Fingerprint Sensor, Solenoid Lock, Relay, Power Supply

◆ **Organic Food Web Application**
A full-stack e-commerce platform for selling and delivering organic food.
  Key Features: Product Listings, Order Tracing, User Reviews, Online Payments, Bio Update
  Technologies: HTML, CSS, JavaScript, PHP, MySQL

◆ **Todo List (MERN Stack)** 🔗
A dockerized and hosted task manager using the MERN stack.
  Key Features: Add, Mark as Done, Delete Tasks
  Technologies: React, Node.js, Express.js, MongoDB, HTML, CSS, Bootstrap, Docker

◆ **Crop Recommendation System** 🔗
A machine learning-based crop suggestion platform trained on soil and climate data.
  Key Features: Predicts Best Crop Based on Soil & Weather
  Technologies: Python, Flask, Machine Learning, Docker, Dataset-based Training

◆ **Job Board Platform** 🔗
A cloud-hosted job portal for employers and job seekers with role-based dashboards.
  Key Features: User Registration/Login, Profile Management, Job Posting/Searching/Applying, Admin Panel
  Technologies: HTML, CSS, Bootstrap, JavaScript, PHP, MySQL, Docker

◆ **Ride Me – Android Ride-Hailing App**
An Android application that enables users to book instant rides with safety and convenience.
  Key Features: Ride Booking, Location Search, Surge Pricing, Rating System, Safety Features, Profile Management
  Technologies: Java (Android Development), Firebase (Database & Authentication)

🏠 Organizations

IEEE – Jagannath University Computer Society (IEEE JnU CS BD) General Member
Oct 2023 – present | Dhaka, Bangladesh
  Actively volunteering and contributing to various events and programs organized by IEEE JnU CS BD.

💼 Experience

CP Trainer For Juniors
Jan 2022 – present | Jagannath University
  Conducted training sessions for junior students on **C/C++ programming**, **Data Structures**, and **Algorithms**, with a focus on enhancing their problem-solving skills and preparing them for competitive programming contests.

🧠 Skills

🧠 **Problem Solving & Competitive Programming**
- Solved **2000+ problems** across various OJs.
- Max Ratings – **Codeforces** 🔗 : 1580 | **LeetCode** 🔗 : 1679 | **CodeChef** 🔗 : 1842 | **Code360** 🔗 : 2439

💻 **Programming Languages**
- **C/C++:** OOP, Data Structures, Algorithms, STL
- **Java:** OOP, Data Structures, Algorithms, GUI
- **Python:** OOP, Flask, Django, Machine Learning, NumPy, Pandas, SciPy, Matplotlib, MongoDB

🌐 **Web & Software Development**
- **Frontend**: HTML, CSS, Bootstrap, Tailwind, JS, TS, jQuery, React
- **Backend**: PHP, Laravel, Node.js, Express, Flask, Django
- **Databases**: MySQL, MongoDB, SQL
- **DevOps**: Git, Docker, Kubernetes, CI/CD

🤖 **Artificial Intelligence & Machine Learning**
- **Courses**: AI, ML, Data Mining, Data Science
- **Experience**: Supervised/Unsupervised Learning, Clustering, Regression, Model Evaluation
- **Frameworks/Libraries:** TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Seaborn, NumPy, Pandas

🧰 **Tools & Environments**
- **OS**: Ubuntu, Lubuntu, Windows 7/10/11
- **IDEs**: VS Code, Sublime, Code::Blocks, NetBeans, PyCharm

🧩 **Soft Skills & Other Tools**
- Microsoft 365, Graphics Design, Photo & Video Editing
- Strong in leadership, communication, critical thinking, adaptability
- Fast learner, tech enthusiast

🏆 Achievements & Awards

Champion in JnU Intra University Programming Contest, 2024 🔗
  ID: nibirjoydhar

Champion in CSE Sports Carnival Programming Contest, 2023 🔗
  ID: nibirjoydhar

2nd in Bangladesh (globally 556) in IEEEXtreme 17.0 🔗
  Team: JnUxTeam

4th in Bangladesh (globally 420th) in IEEEXtreme 18.0 🔗
  Team: JnUxTeam

27th in IUT 11th National ICT Fest Programming Contest 2024 🔗
  Team: JnuXTeam

49th in BUET Inter University Programming Contest 2023 🔗
  Team : JnU_ABC

54th in BUET Inter University Programming Contest 2024 🔗
  Team: JnU_Shomonnoyok

54th in SEC Inter University Junior Programming Contest 2022 🔗
  Team: JnU_Droplets

99th in ICPC Dhaka Regional 2023 🔗
  Team: JnU_TLE

Participated in 14th National Undergraduate Mathematics Olympiad 2023