

# Mayank Bharati

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## EDUCATION

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### Indian Institute of Information Technology, Allahabad

Allahabad, India

*Bachelor of Technology in Electronics and Communication, Minor in Deep Learning*

*Aug. 2020 – May 2024*

- **CGPA:** 8.23

## EXPERIENCE

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### Software Development

Jan. 2023 – Feb. 2023

*Academic*

*Remote*

- Developed an easy-to-use wrapper in React and Node.js for Parse/MongoDB to be used internally to allow other employees to make common queries efficiently without having to interact directly with Parse Dashboard
- Implemented test result visualization allowing for immediate response, data analysis, and increased cross team accessibility.
- Automated common interactions with the database to speed up common actions such as resetting customer passwords, setting up new teams, and viewing integration logs more easily

### Casual Academic Backtesting

May 2023 – July 2023

*Allahabad, India*

- Developing market-neutral, medium frequency alphas based on macroeconomic trends backed by academic research.
- Applying machine learning algorithms such as Regression, PCA, K-Means for building profitable strategies out of the signals.
- Part of 3-member team responsible for full software development life cycle (SDLC) of Java-based equity algorithmic trading system.
- Establish parameters and develop system framework, including assessing and developing benchmark and rules-based execution strategies.
- Review and examine dynamics of entire system, including information flows and application dependencies.
- Contributed 50K+ lines of code to an established codebase via Git
- Skills: Quantitative Finance · Financial Data · Data Science · Algorithmic Trading · Statistics · Futures Trading · Machine Learning · Quantitative Research · Python, C++ (Programming Language) Skills

## PROJECTS

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### Database Design | Database Systems, File Systems, Object Storage Systems, Java Swing, C++ May 2018 – May 2020

- Developed a Management System for cinema to store, manipulate and search movies and tickets by customers.
- Also designed an ER-model and translated the model to relational schema for a management system of cinema created and implemented a desktop application. Used MongoDB, Kafka also.

### Productimon Trade | C++, Python

Jan 2023 - Feb 2023

- Develops trading system which anyone is able to follow.
- Design and builds automated trading strategies in the forex and options market that are consistently profitable.
- Develop Backtesting and analytical platform.
- Produce results of at 3% a month with less than a 1% draw-down with my custom algorithms.

### Chest X-ray Federated Learning | Python, Federated Learning, Deep Learning, CNN

Jan 2023 – May 2023

- Developed Chest X-ray Federated Learning model to accurately classify chest diseases using a Python-based implementation of federated learning techniques
- Streamlined project timelines and increased team productivity by implementing a time tracking system; reduced project completion time by 20 percent and saved an average of 10 hours per week for each team member

## ACHIEVEMENTS

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- Global Rank 621 in Google Kick Start Round E 2022.
- Got rank in 1000 in MetaHackercup Round 1 2023.
- Codeforces Max Rating: 1647(Expert).
- Ranked 30th in a electronic trading contest held by Jane Street at UNSW in 2022
- Globally Ranked 654 in Codeforces Educational Round 123.
- Solved more than 1500+ Coding Problems on various coding platforms.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL (Postgres), MySQL, JavaScript, MongoDB, Socket Programming

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Kafka, JIRA, Redis, Linux/Unix

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, Neural Nets

