



# GREESHRAJ PATAIRIYA



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ECONOMICS (BS-MS 5Y)

## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	BS-MS(5YR)	IIT Kharagpur	8.12/10
2020	Class XII CBSE	Jawahar Navodaya Vidyalaya Mahoba	91.40%
2018	Class X CBSE	Jawahar Navodaya Vidyalaya Mahoba	79.20%

## INTERNSHIPS

**Application Developer | Medsolu Pvt Ltd | Prof. Arabin Dey | IIT Guwahati** [Feb '23 - Apr '23]

- Conducted in-depth research on diverse health insurance types using analytical skills and **Python** (Pandas, NumPy, Seaborn)
- Collaborated with a cross-functional team to design project profitability, contributing to process through technical expertise
- Played a pivotal role in the software development of the product, implementing machine learning algorithms like **Scikit-learn**
- Generated impactful reports and presentations, using data visualisation tools (**matplotlib, seaborn**) and contributed in project

## PROJECTS

**Video Chat Application | Socket.io | Self Project** [June '24]

- Developed a robust video chat application using **Node.js**, Express, **PeerJS**, and **Socket.io**, enabling real-time communication
- Implemented frontend functionality with JavaScript, chat options, and support for **multiple users** to join simultaneously
- Integrated seamless video/audio toggling capabilities, ensuring a user-friendly experience and leveraging development skills

**Plant Disease Diagnosis | ReactJS | Deep Learning | Self Project** [June '24]

- Developed a react based web application for farmers to upload vegetable leaf photos and receive condition diagnoses
- Implement a FastAPI backend integrating deep learning models (**TensorFlow, Keras**) for classification and deploy on netlify
- Utilized convolutional neural networks (**CNNs**) to accurately detect plant diseases with an accuracy **0.8579** and loss **0.3507**

**Facetroneix | Face Recognition | Self Project** [Dec '23]

- **Objective:** To develop a face recognition attendance system.
- Developed accurate and efficient face recognition attendance system with **OpenCV**, Flask, and ML libraries like scikit-learn
- Utilized **KNN algorithm** for facial recognition, achieving instant identification and integration with a Flask web application
- Cutting-edge biometric attendance ecosystem (Face), synergizing OpenCV, **Flask**, and avant-garde machine learning libraries

**Personal Portfolio | Front-End, Robust Back-End, and Secure Transactions** [Jan'23]

- Crafted a dynamic portfolio website with ReactJS frontend, NodeJs(Express) backend & MongoDB database, featuring sign-in
- Implemented **user authentication**, secure **payment gateway** for streamlined transactions and live **chat** functionality to user

## SKILLS AND EXPERTISE

**Languages/Libraries/Framework:** C++ | Python | Numpy | Pandas | Seaborn | Matplotlib | Scikit-Learn | Keras | OpenCV | TensorFlow | SQL | FastAPI | HTML | CSS | JavaScript | ReactJS | NodeJS | Express | React Native | Next.js | Socket.io

**Skills:** Machine Learning | Deep Learning | Data Analysis | Data Structure and Algorithms | Web Development | Data Processing

**Software and Tools:** PowerBi | Stata | Git Github | Jupyter Notebook | VSCode | Docker | Postman | MongoDB Compass

## COMPETITION/CONFERENCE

- Secured 2nd position in the **Full Stack Development** Hackathon, Hack-An-Intern, organised by KodeinKGP at IIT Kharagpur
- Advanced to the second round of the **Data science** competition hosted by **American Express**, with an accuracy of **59.1**
- Attained **Codeforces contest** rank of 3122 out of 40336 participants, by utilising the C++ expertise (CF Handle: **greeshraj234**)

## POSITIONS OF RESPONSIBILITY

**Steering Committee Member | Tech-Head | Tech-Sub-Head | Kshitij IIT Kharagpur** [Aug '22-Present]

- Now Leading the Tech-Team Heads for the upcoming fest (Jan '25), to manage the fest and website for over 50k participants
- As the head, collaborate with tech-team on website for Asia's largest tech-fest using ReactJs, NodeJS and MongoDB
- Managed important pages like events, accommodation, payment and handled more than **500k requests** on website **ktj.in**

**Library and Alumni Affairs Secretary | LBS Hall of Residence | IIT Kharagpur** [Sep '22-May '23]

- Effectively managed administrative duties for **1500+** boarders and actively fostered meaningful alumni events for the 2022-23

## COURSEWORK INFORMATION

•Econometric Analysis •Probability and Statistics •Programming and Data Structures •Financial Management •Economic Data Analysis  
•Public Finance •Operations Research •Statistics For Economics •File organisation and Database Systems •Financial Institutions and Market

## EXTRA CURRICULAR ACTIVITIES

- Part of the Lal Bahadur Shastri Hall of Residence hockey team in the General Championship held in the spring sem (2024)
- Supported over 500 residents &100 households by volunteering with Unit 10 of the National Service Scheme during the camp
- Achieved the **Rajya Puraskar** award in **Scouts and Guides** during school, demonstrating leadership and teamwork (2019)

!Self declared by the student, CDC could not verify the relevant documents