

# Satyapir Ghosh

Python Developer and Frontend Developer

+91 6290133075   satyapirgceets@gmail.com   Kolkata, India  
in/Satyapir Ghosh   github.com/SatyaPir1998

## Profile

Python developer with almost 3 years of experience in software development and core knowledge of JavaScript. Also, I build a website for IIT KGP SSBI Laboratory. currently learning new technology React and AWS for web development . Ability to deliver high-quality software independently and collaboratively. Passionate about continuous learning and web development trends.

## Areas of Expertise

Python Development - Frontend Development - Data Analysis and Visualization - Backend Development - Web Scraping

## Professional Experience

**Python-Based Interaction Network, (IIT Kharagpur,)** **Kharagpur, WB** 06/2023 - present

- Implemented strategies to significantly enhance the speed and efficiency of the Python-based interaction network analysis tool, reducing processing time and improving overall performance.
- Utilized pandas for efficient data structuring and manipulation, coupled with Matplotlib to create insightful visualizations of complex microbe-metabolite interactions in bovine gut microbiota. Integrated advanced plotting functionalities to produce visually compelling representations, empowering researchers to gain deeper insights into microbial community dynamics.
- Implemented industry best practices in code organization, documentation, and optimization techniques to enhance the clarity, readability, and user experience of the project. Resulted in improved collaboration, future maintenance, and accessibility for researchers and practitioners.

**Experienced Web Developer (SSBL Lab IIT KGP)** **Kharagpur, WB** 05/2022 - 05/2023

- Developed an immersive website for IIT Kharagpur's SSBL Lab, focusing on pioneering research and enhancing collaboration and visibility within academic and broader communities. Integrated user-friendly design, dynamic elements, and interactive features to boost engagement and attract new students.
- Achieved a notable 40% increase in website engagement, amplifying impact and garnering increased attention in academic circles. This led to enhanced collaboration and dissemination of research findings, contributing significantly to the lab's recognition and success.
- Implemented SEO best practices to improve the website's visibility and search engine ranking. Continuously monitored and optimized performance to ensure an optimal user experience.

**Classification of Cancer Cell Using ML (IIT Kharagpur)** **Kharagpur, WB** 07/2021 - 04/2022

- Implemented transfer learning and ensemble techniques using pre-trained VGG and ResNet models to classify cancer types. Utilized image data manipulation techniques, including data augmentation, cropping, and resizing, with TensorFlow to optimize model performance on a reduced dataset of 400 images, classifying them into 4 types with 100 images for each type.
- Implemented features to enhance accuracy and efficiency in cancer diagnosis, resulting in significant improvements upon deployment of the solutions.
- Successfully deployed solution, leading to significant improvement from 83.2% to 84.1% in early detection rates and patient outcomes.

**Final Year Project: PAN Portal System (GCETTS)** **Sherampore, WB** 07/2018 - 06/2019

- Developed a PAN Portal System to optimize PAN application processes.
- Implemented secure user authentication and authorization mechanisms for different user levels, ensuring authenticated access. Integrated data management and reporting functionalities for accurate record-keeping.
- The PAN Portal System reduces processing time, minimizes errors, and enhances productivity.
- Promotes transparency, accountability, and compliance in PAN application processes.

## Online Courses & Certifications

- JavaScript Course With Certification: Unlocking the Power of JavaScript (Jan. 2023) - [SCALER](#)
- Certificate for Python and SQL for Data Science (Aug. 2023) - [SCALER](#)

- Node JS Certification Course - Master the Fundamentals (Feb. 2022) - [SCALER](#)

## Education

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**B.Tech Information Technology** [GCETTS](#)

**Hoogly, India** 2015-2019

Relevant Courses: C, Python, DBMS, Data Structure, HTML, CSS, JavaScript etc

## Skills

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- **Programming:** C, Python, HTML, CSS, JavaScript, SQL
- **Frameworks:** Node Js, Express Js, React, Flask
- **Database:** MongoDB, MySQL
- **Software:** version control Git, Cytoscape, Adobe Photoshop, Postman, VS Code, Microsoft Excel
- **Soft Skills:** Presentation, Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking

## Languages

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- **English** [Proficient ]
- **Bengali** [Native]
- **Hindi** [Native]