Amisha Sinha

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Summary

Skilled developer with experience in machine learning, backend and frontend, proficient in web application development, seeking opportunities for growth and impact.

Education

2021 - 2025	Bachelor's Degree,	at	**IIT Kharagpur**	CGPA: 8.16
2021	Class 12th CBSE	at	**Krishna Public School, Patna**	92.4%
2019	Class 10th CBSE	at	**D.A.V Public School, Patna**	95.6%

Work Experience

Data Science Intern at NPCI   May'24-July'24

- Researched on optimizing web server gateways by comparing the working of **ASGI** and **uWSGI**.
- Implemented parallel model prediction using **multithreading** and **asynchronous** computation.
- Optimised prediction of model using **ONNX** and **sparse** matrix reducing the latency to **50%** .
- Got familiarised with server hosting using **Gunicorn** and **FastAPI**.

Full Stack Intern at Insteasy   Nov'23-May'25

- Worked on bug fixing and API development using **Django**, **Angular**, and **TypeScript**.
- Build components, services, and authentication guards and integrated them with **rest** APIs.
- Streamlined development workflows by using **Git**, **Bitbucket**, and setting up **CI/CD** pipelines on **Heroku**.
- Built in-app integrations for **monday.com**, designing a **monorepo** architecture and configuring **webhooks** for real-time tracking of app lifecycle events.

Research Intern at IIT Kharagpur, Prof. Surjya Kanta Pal   May'23 - July'23

- Developed an application that performs defect detection in welding and generates an analysis report.
- Implemented login and signup system with user authentication for secured application access.
- Integrated Python files with **Django** and **React** to perform object detection mechanism.

Projects

Power Converter Store, Term Project, Prof. Dipankar Debnath   July'24 - Dec'24

- Build an application which serves as online store for buying power converter components.
- Safe limit value for each component is calculated in **typescript** logic and components are filtered.
- Components are extracted using **selenium** script which updates database using **APScheduler**.

Chatbot Application – Deloitte, Open Software'25   Mar'25 – Apr'25

- Designed and developed a dynamic, user-centric chatbot interface using **React** and **TypeScript**, aimed at monitoring employees' mental well-being.
- Integrated backend APIs built with **MongoDB** for CRUD operations and real-time bot responses powered by **Gemini**. Weighted analysis of factors was used to adjust response and recommendations dynamically.
- Led and mentored a 10-member team, setting up GitHub workflows ensuring maintainable code architecture.

Skills

Programming Languages and Softwares:	Python, C, C++, HTML, CSS, Javascript, Typescript, Git, Github, Bitbucket, Jira, Docker, FastAPI, Heroku, Render
Frameworks and Libraries:	Django, Node.js, MongoDB, Angular, Ionic, React, Random forest, Tensor Flow, Pickle, h5,