

MAYUK SARKAR

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EDUCATION

Indian Institute of Information Technology, Jabalpur, India

Bachelor of Technology- Computer Science Engineering

Expected May 2025

Cumulative GPA: 7.5/10.0

ADDITIONAL

Languages: C++, Python, Javascript, HTML, CSS, PHP, SQL

Frameworks: Django, Django Rest-framework, React.js, Node.js, Express.js, Bootstrap, Scikit-learn, Tensorflow

Tools: Git, GitHub, Linux, MySQL, MongoDB, VsCode, Postman, Postgres

Soft Skills: Leadership, Event Management, Public Speaking, Strategic Thinking, Planning, Code Review

WORK EXPERIENCE

TCS INNOVATION LAB (CTO)

May 2024 - Jul 2024

Research Intern

Kolkata, India

- Enhanced NAS model performance by 15% using Differentiable architecture search (DARTS).
- Fine-tuned training steps with custom learning rate schedules, boosting efficiency by 25%.
- Tried different genotypes structures to find the best result and architecture, improving prediction accuracy by 20%.
- Automated environment and GPU setup tasks with shell scripts, increasing productivity by 10%.

SLDC ODISHA

Nov 2023 - Apr 2024

Machine Learning Intern

Remote

- Predicted electricity consumption patterns across diverse regions, with a 25% increase in accuracy(MSE).
- Created diverse input sequences for models, reducing model training time by 15%.
- Deployed LSTM and BiLSTM models, delivering precise 6-year forecasts tailored to varying weather conditions, while decreasing mean-squared error (MSE) by 20%.

REWORK AI

May 2023 - Jul 2023

Mern Stack Development Intern

Remote

- Revamped web app UI, boosting engagement with visually captivating design tweaks, including 10+ UI changes.
- Implemented Frontend form validation, reducing Backend processing overhead by 25% and ensuring data integrity.
- Optimized API performance through local storage utilization, leading to a 30% reduction in data retrieval latency and improved application responsiveness.

PROJECTS

Shoppify | Python, Django, Ajax, Bootstrap (<https://github.com/mks2002/Shoppify>)

- Boosted user engagement by 40% through real-time content updates via AJAX.
- Revamped Admin-user workflow with a 25% productivity boost through modifications to the Django dashboard.
- Optimized database search efficiency by 20% using Django's query sets and subqueries, while bolstering security with email verification.
- Improved order management with real-time order status checking, resulting in a 30% efficiency gain.
- Fortified data protection by 10% through seamless user authentication and secure 'Forgot Password' mechanism.

Hotelhub | Python, Django, Request-module (<https://github.com/mks2002/Hotelhub>)

- Implemented advanced search functionalities based on city, state, hotel name, and price, enhancing user convenience and search accuracy by 20%.
- Created a custom authentication system to prioritize user data security and authentication processes, ensuring a 30% increase in protection.
- Integrated a reliable payment gateway for real-time booking status updates, enhancing user experience by 40% and also integrate IRCTC API to provide precise train information, improving booking conversions by 15%.

ACHIEVEMENTS

- Solved over 1000+ DSA problems successfully, across renowned platforms such as [GeeksforGeeks](#), [LeetCode](#) and [Codeforces](#).
- Selected as a core member of the college alumni website team, mentored a team of 5 junior developers to ensure project success and implemented 2 major changes.