Tashik Middha

Delhi, India | +91 8824780800 | tashikmiddha@gmail.com | [Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [GeeksforGeeks](#)

Full-stack developer with practical experience in building scalable ML-based and real-time web applications using Python, SQL, JavaScript, and APIs. Developed secure IoT systems for agricultural optimization and real-time healthcare solutions. Completed 375+ coding challenges on LeetCode and GeeksforGeeks, with consistent performance in competitive contests.

EXPERIENCE

Project Intern – IoT & Machine Learning | IIT Ropar | May 2025 – Present

- Engineered and deployed 3+ ML models to predict crop yield with 85%+ accuracy using real-time IoT sensor data, enhancing resource allocation efficiency by 30%.
- Engineered an end-to-end pipeline integrating hardware sensor input and ML inference, reducing manual intervention by 70% in decision-making for agricultural planning.

Web Developer Intern – Magnify Brand Solutions Pvt. Ltd. | Dec 2023 – Mar 2024

- Designed and deployed 5+ SEO-optimized websites, increasing client page load speed by 40% and boosting user retention by 25%.
- Refactored backend APIs and optimized database queries, resulting in a 45% reduction in page load time across 3 production websites.
- Collaborated cross-functionally with 3 departments to deliver mobile-responsive designs, improving bounce rates by 18% across client websites.

SKILLS

- **Programming Languages:** Python, C++, C, PHP, SQL, HTML, CSS, JavaScript
- **Frameworks:** Django, Scikit-learn, OpenCV
- **Software:** XAMPP, Kali Linux, Tails OS
- **Others:** API Integration and Development, Version Control (Git, GitHub), Model Deployment, Cybersecurity Fundamentals, Network Fundamentals, MySQL, DBMS, XMPP, Linux, Windows

PROJECTS

Medicine Suggestor Web App — [GitHub](#) | Jan 2024 - Jan 2024 | Html, Css, Javascript
- Created a real-time medicine suggestion engine for 100+ common symptoms using PHP and SQL; reduced user diagnosis time by 40% with auto-suggestions and doctor locator API integration.
- Integrated Google Maps API and XMPP protocol to support real-time doctor location and chat, reducing user query resolution time by 50%.

Online Voting System — [GitHub](#) - SIH 2022 | May 2022 - Jul 2022 | React Js , CSS, Javascript , PHP , SQL
- Designed a secure online voting system with 98% face recognition accuracy, reducing voting fraud risk by 60% and processing results in under 10 seconds.

AgroTech Yield Predictor — [GitHub](#) | HTML, CSS, Javascript, PHP , SQL
- Architected a scalable Django web platform that processes real-time IoT data and delivers ML-based crop yield recommendations, increasing farmer decision accuracy by 25%.

Inventory Management System — [GitHub](#) | Jan 2024 - Jan 2024 | Html, Css, Javascript
- Launched a real-time inventory system for 500+ SKUs with instant alerts and low-stock forecasting, improving order fulfillment accuracy by 35%.

Simple Python Tools — [GitHub](#) - SIH 2022 | May 2022 - Jul 2022 | React Js , CSS, Javascript , PHP , SQL
- Built 6+ automation tools in Python including a file organizer, PDF merger, and Jarvis-like AI assistant, saving 10+ hours of manual work weekly.

Other Projects:

- Music Player App:Launched a music player with playlist creation, shuffle, and playback control features using JavaScript and HTML5, supporting seamless audio playback across devices.
- Weather App: Developed a real-time weather forecasting web app using OpenWeatherMap API; provided accurate hourly forecasts for 100+ global locations.

EDUCATION

National Institute of Technology (NIT), Delhi
B.Tech in Computer Science & Engineering — 2023 – Present
CGPA: 7.8

Prince Academy, Sikar
Senior Secondary (Mathematics) — 2021 – 2023
Score: 94% | JEE Percentile: 99.2

COMPETITIVE PROGRAMMING

- Solved over 375 coding challenges across LeetCode and GeeksforGeeks with consistent performance in contests.
- Resolved 12+ system bugs during development phase, reducing deployment time by 20%