

# Gourav Barnwal

Full Stack Developer / AIML Learner

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## Professional Summary

Full-stack developer skilled in **React.js**, **FastAPI**, **Flask**, **Firebase**, and **PostgreSQL**, with experience building scalable web applications and deploying ML models using **Python**, **Streamlit**, and **Scikit-learn**. Strong focus on clean architecture, UI/UX, data-driven development, and end-to-end product delivery. Passionate about AI, automation, and building high-impact applications.

## Work Experience

Oct 2025 – Present Boston, Massachusetts, US	<b>AI Software Engineer Intern - Tickerpulse</b> <i>AI Product Manager Accelerator</i> <ul style="list-style-type: none"><li>Integrated frontend and backend using React.js and FastAPI enabling smooth API communication.</li><li>Designed and managed PostgreSQL databases, including schema setup and CRUD operations.</li><li>Ensured reliable data flow across the React.js UI, FastAPI backend, and PostgreSQL database.</li></ul>
Jun 2025 – Jul 2025 Ranchi - Hybrid	<b>Software Development Intern</b> <i>National Institute of Advanced Manufacturing Technology (NIAMT), Ranchi</i> <ul style="list-style-type: none"><li>Built a full-stack app for attendance automation using React.js, Flask, Firebase</li><li>Added OTP login, email alerts, SBI Collect integration</li><li>Role-based access with real-time updates</li></ul>
Jul 2025 – Aug 2025 Remote	<b>AI/ML Intern - Classification of Fire Types in India Using MODIS Satellite Data</b> <i>AICTE × Edunet Foundation × Shell</i> <ul style="list-style-type: none"><li>Analyzed MODIS fire data (2021–2023) to classify fire types (vegetation, static, etc.)</li><li>Performed EDA on class imbalance and spatial distribution</li><li>Built &amp; deployed an ML app using Python, Streamlit, Scikit-learn, Folium, Pandas.</li></ul>

## Projects

Oct 2025 – Present	<b>TickerPulse — Stock Trend &amp; Sentiment Tracker (ReactJS, FastAPI, PostgreSQL)</b> Tracks stock mentions from influencers and financial content to identify trending companies. Includes alerts, market-interest analysis, and a clean UI for investors.
Jul 2025 – Aug 2025	<b>Deforestation Fire Classification (Using Modis csv data)</b>  Deployed a model that predicts fire types using satellite attributes like brightness & FRP. Includes interactive maps, real fire comparisons (2021–2023), and downloadable reports.
Jun 2025 – Jul 2025	<b>Students Attendance Monitoring and Alert Generation System (ReactJS, Firebase, Flask)</b> Full-stack application made with React.js, Python Flask, and Firebase to automate attendance. Features include role-based dashboards, email alerts for attendance below 75%, OTP password recovery, and integration with SBI payment gateway.


## Skills

<b>Front-end</b> — Competent ReactJs, HTML5, CSS3, JavaScript, Tailwind CSS, Bootstrap	<b>Backend</b> — Competent NodeJs, ExpressJs, Flask
<b>Database</b> — Proficient MongoDb, Firebase, PostgreSQL	<b>API's</b> — Competent RestAPI's, Email/OTP Auth, SBI Collect Integration
<b>AI/ML</b> — Competent Python, Pandas, Seaborn, Scikit-learn, Folium, Jupyter	<b>Tools</b> — Competent Git, GitHub, Render, Netlify, Streamlit

## Certificates

Data Analytics Workshop, IIT, Kharagpur   Jan, 2024	Internship Certificate, NIAMT Ranchi — Jun–Jul 2025
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## Achievements & Recognition

**Letter Of Recommendation(NIAMT)**   
• LOR from NIAMT Ranchi for performance in full-stack internship (June–July 2025)

## Education

Dec 2022 – Aug 2026 Ranchi, Jharkhand	<b>Bachelor's in Computer Science &amp; Engineering</b> <i>Ramgarh Engineering College, Ramgarh</i> CGPA : 7.27
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