Ganesh Singh

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Education

Thakur College of Engineering and Technology (TCET) Expected June 2027
Bachelor of Technology in Artificial Intelligence & Machine Learning *Mumbai, India*
- CGPA: 9.74 / 10.0

Thakur College of Science & Commerce (TCSC) June 2022 – March 2023
Higher Secondary Certificate (HSC) – Science (Computer Science) *Mumbai, India*
- Percentage: 71%

Experience

Software Development Intern Mar 2026 – Present
LifeRythem *Mumbai, India*
- Building a React Native APK with Kotlin native plugins integrating 4+ IoT medical devices (stethoscope, ECG, SpO_2, weight machine) into a unified, streamlined doctor workflow system
- Engineered a CNN-based ML pipeline on stethoscope `.wav` auscultation data, achieving 90% detection accuracy for cardiac and pulmonary anomalies and enabling AI-assisted clinical diagnostics at the edge

AI & ML Intern Dec 2025 – Jan 2026
DRSGA *Mumbai, India*
- Developed a real-time NABH compliance dashboard using JavaScript and Chart.js, visualizing 20+ KPIs and reducing manual audit time by 80% via automated PDF generation
- Developed an ML-based NLP sentiment analysis system exposed via REST APIs, analyzing 100+ client feedback records to generate actionable insights for data-driven decision-making

Projects

S.C.O.P.E. | *React, Node.js, Ubuntu, PostgreSQL, Redis, Nginx, Docker, Judge0* Mar 2026 – Apr 2026
- Architected a 4-role distributed assessment platform for 1,000+ concurrent users via Dockerized Judge0 nodes on Ubuntu Linux, Nginx least-conn load balancing, and Redis async queuing achieving 0% failure rate
- Validated 40,000 requests at 200 concurrent connections with zero downtime; built Super Admin dashboard monitoring live Nginx connections, Redis queue depth, and per-node CPU/RAM across the cluster

Exo-Classifier | *Python, XGBoost, Flask, Scikit-learn, Pandas, NumPy* Oct 2025 – Nov 2025
- Processed 11,436 NASA Kepler KOI observations across 11 stellar and orbital features for binary habitability classification using Python and Pandas
- Built an XGBoost classification model integrating SHAP and LIME for interpretability, achieving 75% accuracy on confirmed planet vs. false positive detection

Technical Skills

Languages: Python, Java, JavaScript, Dart, HTML/CSS
Frameworks: Spring Boot, Node.js, Express.js, Flutter, React Native, FastAPI, REST APIs
Databases: PostgreSQL, Mongodb
Libraries: Pandas, NumPy, Scikit-learn, TensorFlow/Keras, CNN, XGBoost, SHAP, LIME, LangChain, LangGraph
Tools: Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Power BI, Docker, Nginx

Achievements & Contributions

- **Technical Lead** – ACM SIG AI TCET; team leadership, SDLC management, software development, and production deployments
- **Secretary** – Super-AI Community, Mumbai; coordinated cross-team communication, orchestrated 15+ technical workshops and webinars, and drove a 40% increase in community engagement
- **Global Nominee** – NASA Space Apps Challenge 2025; among 114,000+ global participants across 167 countries
- **1st Runner-up** – IIT Kanpur CredTech 2025 National Hackathon
- **2nd Runner-up** – TCET Codethon 2024
- **Finalist** – DIPEX 2025