

ARPAN SINGHA

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EDUCATION

Indian Institute of Technology (IIT) Madras <i>BS in Data Science & Applications CGPA: 7.35</i> Coursework: Statistical Modeling, Machine Learning, Data Engineering	2023 – Present Chennai, India
Parul University <i>B.Tech in Computer Science & Engineering CGPA: 7.89</i> Coursework: Algorithms, Distributed Systems, Modern Software Engineering	2023 – Present Vadodara, India
Satish Chandra Memorial School (CBSE PCM+CS) <i>Class 12 Score: 91.6%</i>	2020 – 2022 Chakdaha, India

TECHNICAL SKILLS

Languages: Python (Expert), SQL, Java, C, TypeScript, JavaScript (ES6+), HTML/CSS
AI / Machine Learning: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Predictive Modeling
Web / Cloud: MERN Stack, Next.js, Flask, REST APIs, Microsoft Azure, AWS
Tools & Databases: Docker, Git, Postman, MongoDB, SQLite, PostgreSQL, Linux, VS Code

TECHNICAL PROJECTS

Hyperlocal Hiring Network Tech Stack: MERN, JWT, Cloudinary github.com/arpansingha7/Hyperlocal-Hiring-Network <ul style="list-style-type: none">Architected a full-stack job discovery platform for local recruitment with secure JWT-based authentication and role-based access control.Optimized MongoDB query schemas to achieve sub-100ms response times under 500+ concurrent records.Engineered a Cloudinary-integrated media pipeline, improving asset retrieval speed for end-users by 35%.	Oct 2023 – Present
Advanced ML & Data Classification Pipeline Tech Stack: Python, Scikit-learn, Pandas <ul style="list-style-type: none">Built end-to-end ML pipelines for automated classification across 5+ diverse datasets with varying feature distributions.Automated preprocessing and feature engineering using Pandas, cutting data preparation time by 40%.Tuned hyperparameters via grid search and cross-validation, achieving a 15% improvement in classification accuracy.	April 2026
Hospital Management System Tech Stack: Python, Flask, SQLite <ul style="list-style-type: none">Developed a multi-user healthcare platform managing patient records, billing, and appointment scheduling workflows.Designed a normalized relational SQLite schema for 1,000+ records with zero data redundancy.Streamlined administrative workflows, reducing manual data-entry time by an estimated 30%.	2024

EXPERIENCE & LEADERSHIP

IIT Madras BS Program – Technical Representative (Gir House) India <ul style="list-style-type: none">Spearheaded technical strategy for house-level competitions at Paradox and Margazhi fests, contributing to multiple podium finishes.Mentored 20+ peers in Python and SQL fundamentals, raising house project submission rates by 45%.Participated in rapid-prototyping hackathons, delivering functional and scalable solutions for complex technical briefs.	Oct 2023 – Present
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CERTIFICATIONS & LANGUAGES

Certifications: Microsoft Azure AI Fundamentals | Cisco: Cybersecurity Essentials | NPTEL: Internet Protocols | LinkedIn: Software Development Fundamentals
Languages: English (Full Professional) | Hindi (Full Professional) | Bengali (Native)
Competitive Programming: LeetCode – leetcode.com/u/arpansingha7