

Jainam Shah

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Education

Birla Institute of Technology and Science Pilani, Goa Campus

Bachelor of Engineering in Computer Science (CGPA: 8.91 / 10)

Expected Jul 2026

Vasco da Gama, Goa

- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Cloud Computing, Database Systems, Object Oriented Programming, Operating Systems, Game Theory, Probability & Statistics, Computer Networks

Experience

Oracle

MTS Intern

May 2025 – Jul 2025

Bengaluru, Karnataka

- Designed and implemented schema-only inference for Oracle's JSON-to-Duality Migrator using LLMs (Generative AI) to auto-identify Primary Keys and merge semantically equivalent entities from JSON metadata, enabling accurate relational modeling without data, implemented core components in C and validated mappings using SQL.
- Developed semantic guardrails and metadata-driven heuristics to ensure structural correctness and achieve 25% reduction in tables and 38% improvement in deduplication ratio during document-to-relational migration successfully migrating 99.7% of all documents.

Indian School of Business Hyderabad (ISB)

Research Intern

Feb 2025 – May 2025

Remote

- Built a scalable pipeline to reconstruct 5GB of historical data on 650 fintech apps by integrating Wayback CDX API with proxy scraping, ensuring high completeness and consistency for downstream analysis.
- Applied Natural Language Processing and fuzzy matching (95% accuracy) to standardize and link entity names across disparate sources, creating a high-completion (90%) time-series dataset that enabled robust market analysis.

Cognix Technologies

SWE Intern

May 2024 – Jul 2024

Bengaluru, Karnataka

- Developed a Machine Learning model for cricket batting video analysis, identifying shot, stance, and posture using OpenCV, exposed model inference via REST APIs, achieving 86% accuracy.
- Assisted in API development with Django and used Flutter to improve functionality and enhance user experience.

Projects

Codeblue System for Medical Center | React.js

Developed an emergency response system triggered via web, QR code, or WhatsApp, automating alerts to medical staff with real-time escalation, used in live hospital emergencies, reducing response time by 10 minutes through call automation and instant status updates.

BITS Hostel Allocation Portal | Java, React.js

Built and deployed a scalable hostel allocation portal for 950 students using ILP, dynamic programming and hierarchical fairness, reducing dissatisfaction by 50%, with real-time wing preference collection handling 805 concurrent users.

Achievements & Publications

Adaptive GPU Power Capping: Balancing Energy Efficiency, Thermal Control and Performance

2025

HPDC '25 – Indiana, USA (Best Poster Award)

Developed a machine-learning model to predict optimal GPU power caps, achieving 12.87% energy savings and 11.38% lower temperature with minimal performance overhead.

Winner – Calendar Dates, Memoriad World Mental Olympics

Nov 2016

Las Vegas, USA

Represented India; solved 102 dates in 60s (world record), won two medals, received \$750 as cash prize.

Runner Up - CodeJam (Competitive Programming Contest @ Quark with 200+ participants)

Feb 2024

Technical Skills

Languages: Java, MySQL, C, C++, Python, JavaScript, CUDA

Technologies: React.js, Node.js, Django, Flask, TensorFlow, PyTorch, Flutter