

Bhavishy Agrawal

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Education

Indian Institute of Technology, Jodhpur

B.Tech in Computer Science and Engineering

Aug 2024 – Expected May 2028

Jodhpur, Rajasthan

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Pattern Recognition and Machine Learning, Operating Systems, Database Systems, Design and Analysis of Algorithms

Achievements

- Secured **AIR 6** at the **Integral Cup Season 2 Grand Finale**, organized by **STEMvibe** and sponsored by **Jane Street**, finishing among the **Top 40 finalists** after securing **AIR 22** among **7,500+ participants** in Round 1 and **AIR 24** among **500 shortlisted candidates** in Round 2.
- Codeforces Expert** – Max Rating **1680**, **400+** problems solved (cf2801) | **LeetCode** – Max Contest Rating **1630**, **450+** problems solved (bhavishy2801)
- Contributed to open-source organizations including *stdlib-js*, *flotilla*, *pgRouting*, and *Wilcolab*.
- Qualified for **RMO 2023** among **110,000+** IOQM participants
- AIR 9** in NMTC'54 and **AIR 15** in NMTC'55 among **30,000+** candidates.
- Rank 2159 in JEE Advanced 2024 (*top 1.2%*); 99.77 percentile in JEE Main 2024 (*top 0.26%*).

Experience

Lead Developer, PRISM | RAID × Summer of Quant'26

May 2026 – Sep 2026

IIT Jodhpur, Rajasthan

- Fine-tuned the Kronos financial foundation model for Indian equities using *PyTorch* and *QLoRA*, and developed forecasting and stock-ranking pipelines with *Qlib*.

Technical Lead, Web Development, Varchas'25

Oct 2025 – Nov 2025

IIT Jodhpur, Rajasthan

- Developed the official Varchas'25 website using *React*, *Three.js*, and *WebGL*, delivering responsive 3D experiences for **5,000+ attendees**.

Projects

NotSoFast

May 2026 – Jul 2026

Go, Python, Git, SQLite, Docker, MCP, C# | GitHub

- Built an **evidence-based AI agent engine** with immutable Git snapshots, composable receipts, and policy-gated atomic publication; evaluated **64 configurations** across query types, repository sizes, and mutations.
- Reduced median repeated content-query latency by **93%** through cached evaluation reuse across **benchmark runs**; implemented durable operation recovery and explicit detection of incomplete search coverage.

AlphaAudit

May 2026 – Jun 2026

Python, NumPy, pandas, SciPy, React, TypeScript, Firebase | GitHub

- Built a reproducible audit pipeline for **120 published equity anomalies**, applying *Deflated Sharpe Ratio*, *CSCV*, and *FDR correction*; only **5%** survived out-of-sample testing, with **65% median post-publication Sharpe decay**.
- Developed regime-conditional analysis across volatility, interest-rate, and microstructure conditions, identifying **16%** of anomalies as robust; built an interactive *React/TypeScript* dashboard for results exploration.

Navra

Oct 2025 – Nov 2025

C++, Node.js, React, PostgreSQL, Redis, REST APIs | GitHub

- Built a C++ campus route-optimization engine supporting *TSP*, fixed-order routing, and full-campus traversal using *Greedy + 2-opt*, *Dijkstra*, and *Kruskal MST*.
- Integrated the engine with a *Node.js REST API*, *Redis*, *PostgreSQL*, and *React*, achieving **sub-200 ms** route computation across **50+ test cases** with **15+ waypoints**.

Whispr

Mar 2025 – Apr 2025

C, TCP Sockets, Multithreading, OpenSSL, MongoDB | GitHub

- Built a secure messaging system over raw TCP sockets using *AES-256 encryption*, *Diffie-Hellman key exchange*, and multithreaded connection handling, validated across **50+ concurrent connection trials**.
- Implemented authentication, session management, and automatic timeout enforcement, supporting **20+ concurrent sessions** with secure connection handling.

Technical Skills

Languages: C, C++, Go, OCaml, Python, TypeScript

Technologies & Systems: React, Node.js, PostgreSQL, Redis, Distributed Systems

Tools & Libraries: Linux, Git, Docker, PyTorch, NumPy, Qlib

Mathematics: Number Theory, Discrete Mathematics, Graph Theory, Convex Optimization