Poshak Pathak

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EDUCATION

University of Louisiana Monroe Aug 2022 – Dec 2026

B.S. Computer Science and B.S. Mathematics. GDSC, ACM, ULM Math Club.

EXPERIENCE

Undergraduate Research Assistant, ULM Jan 2024 – Present

- Developed a GAN-based method to detect poisoned data in federated learning.
- Built data pipelines and trained ML models, improving accuracy by 25%.

Founder & President, ULM Chess Club 2023 – Present

- Founded the university's official chess club, wrote its constitution and runs biweekly events.

PUBLICATIONS

4 peer-reviewed papers, including ITNG 2025 and Bilingualism: Language and Cognition.

PROJECTS

- **Neural chess engine.** 90% accuracy over 1,562 games vs Stockfish 14; 15× faster search.
- **BayesSurgeon.** Statistical analysis of post-surgical breast cancer outcomes.
- **Pictionary Plunge.** 15-class sketch classifier with Bayesian optimization.

AWARDS

- 2nd place, Hacklytics 2025 (Georgia Tech)
- 1st place, ULM Research Symposium
- Also competed at iQuHack 2023 (MIT) and TAMU Datathon 2024

SKILLS

Python, R, SQL, Tableau, Pandas, scikit-learn, ggplot2, dplyr