Ekansh Arora

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EDUCATION

University of Illinois Urbana-Champaign   *Expected Graduation: Dec 2027*
Bachelor of Science in Computer Science & Mathematics   *GPA: 3.89*
Relevant Coursework: Data Structures & Algorithms, Computer Systems, Linear Algebra, Stats & Probability

EXPERIENCE

ATLAS
AI/ML Engineering Intern   *Jan 2026 - Present*
- Built LLM chatbot with **RAG** for Liberal Studies academic advising system
- Deployed analytics pipeline tracking **1k+ student interactions** and query resolution rates

Tiles of India
Founder & Developer   *Nov 2025 – Dec 2025*
- Built React-based Scrabble word trainer with **spaced repetition** serving 100+ DAUs
- Processed 250k+ words into 3–8 letter lists using Pandas, filtered for South Asian linguistic patterns
- Integrated with Scrabble Association of India (SAI) to support 1k+ national players' tournament prep

Genpact
ML Engineering Intern   *Jun 2025 – Jul 2025*
- Built Pandas pipeline to filter and validate tax codes for **100k+ invoices** in AP automation
- Developed logistic regression model (0.85 threshold) to automate invoice posting based on vendor reliability, saving **150+ hrs/month**

PROJECTS

AI Urban Planner (NASA Space Apps)   *Oct 2025*
- Processed 10GB+ NASA data to visualize z-score based health scores for 5 Chicago zones
- Integrated GPT-4o API to model environmental impacts via prompt-driven LLM reasoning

AI-Powered Pocket Tanks Player   *Aug 2025 - Sep 2025*
- Built a fully autonomous AI using PyAutoGUI to play Pocket Tanks against level 10 CPU.
- Tested 5 different AI models via LiteLLM, achieving an average score of 65 per game.

PUBLICATIONS

Effects of AI in Scrabble
Author, International Journal of Computer Trends and Technology (IJCTT)   *April 2023 - Oct 2023*
- Analyzed DAWG vs GADDAG algorithms; showed GADDAG is **2x faster despite 5x memory overhead**
- Studied 500+ Scrabble games from Kaggle to reveal AI vs human win trends by rating tier
- Applied regression and data binning to quantify AI's performance across 1100–2300 Elo

LEADERSHIP

Scrabble Association of India (SAI)
Country Representative, Exec. Member & Int'l Player   *June 2020 – Present*
- Directed 5+ national Scrabble tournaments across India with SAI
- Hosted monthly meetups for 100+ newcomers to expand player outreach

SKILLS

Languages: Python, C++, Java, Kotlin, JavaScript, SQL
Frameworks: Flutter, Firebase, Next.js, Pandas, Git, Flask, scikit-learn, PyTorch