

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

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

AI Engineering Intern

Jun 2025 – Jul 2025

- Engineered Pandas-based data pipeline to automate 100k+ invoice checks in touchless AP process
- Developed tax code correction ML tool **saving 150+ hrs/month** in manual invoice review
- Presented AP touchless pipeline to 10+ client stakeholders, driving alignment on automation strategy

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.

TikTok Content Generator

Oct 2024 - Nov 2024

- Used Python to scrape 500K+ Reddit posts for Gen-Z language patterns
- Fine-tuned LLaMA-3 to simulate TikTok-style content & autopost on Instagram

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