

# Adeetya Upadhyay

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## EDUCATION

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### University of Illinois Urbana-Champaign

May 2027

*Bachelor of Science* in Computer Science and Advertising

GPA: 3.80/4.00

*Bachelor of Science* in Econometrics and Quantitative Economics

**Relevant Coursework:** Data Structures & Algorithms, Automata Theory, Compilers, Databases, Distributed Systems, OS

**Dhirubhai Ambani International School** IB: 40/45 | IGCSE: 11 A\* | SAT: 1600

May 2023

## PROFESSIONAL EXPERIENCE

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### Mondelez International

Sep 2025 – Present

*R&D - Software Engineering Intern*

*Champaign, IL*

- Building HDBSCAN model screening 4M+ sugars using 23 physicochemical features to identify low calorie options
- Automating 160+ GROMACS molecular dynamics solubility simulations with Python and SLURM scripts for HPC
- Developing a Fourier-based commodity price forecasting model in PowerBI, estimating \$167M+ in long-term savings

### AG Maritime

May 2025 – Aug 2025

*Software Engineering Intern*

*Mumbai, MH*

- Designed maritime ATS scorer with React/Node.js/PostgreSQL, automating staff matching for 5K+ apps/month
- Integrated a Google SEO parser that updated role requirements using hiring rules and real search-query signals
- Reduced vetting duration by 88% for 1K+ crew/month via a Hungarian-matching model on rank and availability

### Reliance Jio

Jul 2024 – Aug 2024

*Software Engineering Intern*

*Mumbai, MH*

- Built a TensorFlow LSTM model to forecast telecom station battery failures, boosting maintenance accuracy by 10%
- Implemented a Docker CI/CD pipeline with GitHub Actions and Feast, ensuring reliable weekly model retraining
- Added real-time monitoring scripts that flagged missing telemetry and cut outages by 8% across 30,000+ stations

### Accenture

Nov 2023 – Jul 2024

*Software Engineering Intern*

*West Lafayette, IN*

- Created a Signavio-Python process-mining ETL with 16 engineers, identifying 1.5K+ blockers by impact and effort
- Led 8 SWEs on a Random-Forest scoring system for \$1B+ processes, ranking blockers by severity and completion rate
- Deployed a RAG model generating cited, score-based blocker summaries, cutting report time from 3 days to 25 mins

## PROJECTS

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**LiveClass** | *React, TypeScript, Node.js, MySQL, Socket.IO* | [GitHub](#) | [Demo](#)

August 2025 - Present

- Created a real-time classroom platform enabling synced presenting and live Q&A across professors, TAs, and students
- Supports MCQs, short answers, Likert scales, forums, and question banks; piloting in the Illinois CS Department

**MicroBreaks** | *Swift, AppKit, Core Graphics* | [GitHub](#) | [Demo](#)

Oct 2025 - Nov 2025

- Built macOS menu bar app to reduce carpal tunnel risk with break notifs every 500-5000 keystrokes or 10-30 minutes
- Implemented privacy-first keystroke counting and background timer tracking using CGEventTaps and RunLoop

## LEADERSHIP

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### OTCR Consulting

Aug 2024 – Present

*Technology Partner*

*Champaign, IL*

- Founded OTCR's Technical Consulting division, overseeing 3 projects and 20+ SWEs across ML, data and full-stack
- Led 9 SWEs as TPM on a GCV+YOLO logo detection pipeline with occlusion handling, region detection, and OCR
- Tracked GPU performance across 10+ vendors to determine performance decay metrics for a benchmarking startup

### Product Space

Aug 2024 – Present

*Technical Product Manager*

*Champaign, IL*

- Defining product roadmap and GTM strategy for embedded firmware AI agent through user research for YC startup
- Won #1 at PS Hackathon with Buy/Bye, a CV-LLM that questions impulse buys from a product image ([Demo](#))
- Secured \$50K+ in funding for non-profits by developing AI resource hub, Jinship, collating grant resources ([Demo](#))

## SKILLS

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**Languages:** Python, C++, Java, C, SQL, JavaScript, TypeScript, R, Swift

**Frameworks & Tools:** React, Node.js, Flask, Docker, Git, PostgreSQL, MongoDB, Signavio

**Cloud:** AWS (EC2, S3, RDS, Lambda), Azure (Functions, Data Factory), GCP (BigQuery, Pub/Sub, Cloud Vision)

**Distinctions:** Dean's List, #2 in Citadel Invitational (\$450K return), [IBM Data Scientist](#), [Amazon Ads](#), [UPenn M&TSI '22](#)