

Shrishant Hattarki

Gurnee, IL

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EDUCATION

University of Illinois at Urbana-Champaign

B.S. Computer Science + Bioengineering, GPA: 4.0/4.0

Champaign, IL

Aug 2025 – May 2029

Illinois Mathematics and Science Academy

High School Diploma, GPA: 4.0/4.0

Aurora, IL

Aug 2022 – May 2025

EXPERIENCE

Jeev Lifeworks

Software Development Intern

Bengaluru, India

Jun 2022 – Jul 2025

- Built production OCR system for FDA medical data migration between CIOMS and MedWatch formats, processing 10K+ documents monthly
- Optimized pharmacovigilance signal detection algorithms using distributed computing for FDA's 15M+ record FAERS dataset
- Presented research findings at IMSA Summer Symposium to 500+ attendees

Argonne National Laboratory

Machine Learning Researcher

Lemont, IL

Sep 2023 – Jun 2024

- Developed LSTM-based classification models to predict thermoacoustic instability regimes in aerospace propulsion systems
- Published research paper on IMSA Digital Commons and presented findings at IMSALoquium conference
- Collaborated with PhD researchers on time series analysis of combustion dynamics data

University of Illinois Chicago

Robotics and Motion Laboratory Research Assistant

Chicago, IL

Sep 2024 – May 2025

- Developed autonomous pathfinding algorithms for Unitree Go1 quadruped robots using real-time stereo vision
- Benchmarked performance against existing motion capture technology systems, and proved efficacy of my method

PROJECTS

- **Jvala (<https://jvala.tech>) - Autonomous Symptom Tracking Platform:** Won UIUC Startup Weekend building AI-powered chronic condition tracker with one-tap logging, passive environmental data integration, and clinician-grade insights. Backed by 1517 Fund with \$20K+ in funding and AWS credits.
- **Neurovision - Medical AI Diagnostic Platform:** CNN-based early-stage Alzheimer's detection from MRI scans achieving 92% accuracy. Built HIPAA-compliant data pipeline for clinical deployment with TensorFlow and Python.
- **Agricare - Agricultural Disease Detection App:** Computer vision application for crop disease identification providing treatment recommendations to farmers. Implemented using OpenCV and custom CNN architecture.

INVOLVEMENT

Founders, Illinois Entrepreneurs

Sep 2025 – Present

- R&D team member working with DapUp, an athlete NIL management startup, conducting market research and product development for collegiate athlete partnerships.

National Organization of Business and Engineering (NOBE)

Sep 2025 – Present

- Leading consulting project for QpiAI, an Indian quantum computing company, developing market expansion strategy for Chicago technology sector.

FLL Mentor & Coach

Aug 2021 – Feb 2025

- Mentored local FLL robotics team to regional and sectional victories. Won FIRST Coaches & Mentors Award for exceptional dedication.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML, TypeScript, CSS, MATLAB

Technologies: TensorFlow, Tesseract, PyTorch, OpenCV, Flask, Arduino, PySpark, Fusion 360, SolidWorks

Specializations: Machine Learning, Computer Vision, Healthcare Technology, Signal Processing