

# 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 2024 – May 2028

### Illinois Mathematics and Science Academy

High School Diploma, GPA: 4.0/4.0

Aurora, IL

Aug 2022 – May 2025

## EXPERIENCE

### University of Illinois Chicago - Robotics and Motion Lab

Student Researcher

Chicago, IL

Sep 2024 – May 2025

- Developed autonomous pathfinding algorithms for Unitree Go1 quadruped robots using real-time stereo vision and depth mapping
- Implemented obstacle avoidance system processing 30 FPS depth data with custom filtering to reduce noise artifacts
- Benchmarked navigation accuracy against motion capture ground truth and proved 87% efficacy in dynamic environments

### 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 with automated field validation
- Optimized pharmacovigilance signal detection algorithms using PySpark distributed computing on FDA's 15M+ record FAERS dataset, reducing runtime by 34% through query optimization and parallel processing
- Preprocessed and normalized pharmaceutical text data across 47 regulatory fields for machine learning pipeline
- Presented pharmacovigilance algorithm research 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
- Preprocessed time series combustion data including outlier removal, feature scaling, and sliding window segmentation for model training

## PROJECTS

- Jvala (<https://jvala.tech>) - AI-Powered Health Tracking Platform:** Developed pattern recognition models for symptom correlation analysis in chronic condition management. Implemented data preprocessing pipelines for environmental and biometric data integration. Backed by 1517 Fund with \$20K+ funding.
- Neurovision - Medical AI Diagnostic Platform:** CNN-based early-stage Alzheimer's detection achieving 92% accuracy through medical image analysis. Built end-to-end data preprocessing pipeline and deployed HIPAA-compliant ML model using TensorFlow and Python for clinical applications.
- Agricare - Agricultural Disease Detection System:** Computer vision application using custom CNN architecture for crop disease classification. Implemented data augmentation and preprocessing techniques for model training on agricultural image datasets.

## INVOLVEMENT

- Founders, Illinois Entrepreneurs:** R&D team member working with DapUp, an athlete NIL management startup, conducting market research and product development for collegiate athlete partnerships. Sep 2024 – Present
- National Organization of Business and Engineering (NOBE):** Leading consulting project for QpiAI, an Indian quantum computing company, developing market expansion strategy for Chicago technology sector. Sep 2024 – Present

## TECHNICAL SKILLS

**Languages:** Python, SQL, Java, JavaScript, MATLAB, C++

**ML/Data Science & Technologies:** TensorFlow, PyTorch, PySpark, scikit-learn, OpenCV, Pandas, NumPy, Flask, Git, AWS