

# Ajay Bestrapalli

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## EDUCATION

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### Purdue University

Major in Computer Science (Honors) and Mathematics — GPA: 3.95

West Lafayette, IN

Aug 2022 – Present

## EXPERIENCE

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### Summer Intern

Barrios Technology

May 2024 – Aug 2024

Johnson Space Centre, Houston, TX

- Facilitated SharePoint migration of 100,000+ files for Gateway IT team, managing permissions and implementing security measures.
- Conducted data analysis of permissions and errors, resulting in an increase in migration efficiency and resolution of critical issues.

### Executive Chair- Honors Leadership Council

Honors College

Sept. 2022 – Present

Purdue University

- Represented College of Science in Honors College, advising the University President and leading sessions with Deans, resulting in actionable policy changes.
- Organized and Hosted 10+ Events while working through a budget and provided guidance to students.

### Undergraduate Research Assistant

Lightning Wildfire Lab

Jan 2023 – Nov 2023

Purdue University

- Worked in development of an accurate ML model for prediction of lightning and wildfire using satellite data
- Implemented data collection and preprocessing, developing key parameters that enhanced model performance

### Student Clerk

HSSE Library

Aug 2023 - May 2024

Purdue University

- Helped with organizing, managing books at a Federal Depository Library. Worked Front Desk assisting patrons.

## PROJECTS

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### Event Registration Platform

- Developed a Web-Based Application that leverages Keras-OCR for extracting names from ID cards, implemented web scraping techniques to collect university email addresses, and created an automated email list for efficient communication; application deployed on Azure Cloud for scalable hosting and management.

### Housing Price Prediction Model

- Utilized NumPy, Matplotlib, Scikit-Learn to create a model that predicts Housing prices based on 9 factors including inflation, neighborhood, weather.
- Successfully tested and worked on large datasets with accurate results.

### Sports Reservation System

- Developed a concurrent Java-based GUI application for a college sports ticket marketplace, incorporating transaction capabilities, comprehensive features, and detailed statistics.

## HONORS/AWARDS

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- 1st Place - ML@Purdue X DagsHub Machine Learning Hackathon
- One of 100 participants selected for Indian National Mathematics Olympiad (INMO)
- Achieved Dean's List and Semester Honors 4 times for academic excellence at Purdue University
- Awarded NTSE Scholar as a top 1000 students out of 1,000,000 exam participants

## SKILLS & INTERESTS

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**Skills/Languages:** Python, SQL, Java, C, C++, GIT, Unix/Linux, HTML, CSS, Office, Arduino, Numpy, PyTorch, TensorFlow, SharePoint, Data Migration, Data Integrity Verification

**Interests:** Application/ Software Engineering, AI, Generative AI, ML/Deep Learning, Data Analytics, Security, Software Research