

# ASHU KUMAR JHA

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## Education

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**Indraprastha Institute of Information Technology, Delhi**  
*Bachelor of Technology in Computer Science and Applied Mathematics*

**November 2022 - April 2026**  
**CGPA: 7.1**

## Work Experience

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- **Research Intern at PerSisst Lab, IIITD** **Aug 2024 – Dec 2024**  
Guide: Prof. Pragma Kar — [GitHub](#)  
Designed a system using **DSP** techniques to generate chirp signals, analyze reflected audio, and detect number of people in a room using real-time phase mapping.
- **Research Intern at Complex Systems Lab, IIITD** **Aug 2023 – Dec 2023**  
Guide: Prof. Ganesh Bagler  
Curated data using Selenium and **MongoDB**, visualized and classified it using **NumPy**, Pandas, and Matplotlib, and explored ML models with **Scikit-learn**.

## Projects

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- **Stackify – Full-Stack E-commerce Web App** — [GitHub](#) — [Demo Vid](#)  
Developed a **MERN**-based shopping platform with GitHub OAuth, product filters, cart, and admin dashboard. Integrated **React**, **Tailwind**, **node.js**, Express, and MongoDB Atlas.
- **Django Real-Time Chat Application** — [GitHub](#) — [Demo Vid](#)  
Built a real-time group chat app using Django, Channels, and WebSockets with user auth and persistent message storage. Deployed on PythonAnywhere with Tailwind-styled UI.
- **Startup Pitching Platform** — [GitHub](#) — [Demo Vid](#)  
Built a full-stack app using **Next.js**, **Sanity CMS**, and **NextAuth** for pitching startups, voting, and editor curation. Included GitHub OAuth, dynamic search, markdown editor, and real-time views.
- **Weatherly App (Kotlin)** — [GitHub](#) — [Demo Vid](#)  
Android weather app with Retrofit, **Room DB**, and WorkManager for real-time and historic data.
- **StickHero Game (JavaFX)** — [GitHub](#) — [Demo Vid](#)  
Replica of StickHero using **OOP**, **JavaFX** and **Scene Builder** built in a 2-member team.
- **BigStep-CustomFit (SQL)** — [GitHub](#)  
SQL-based customizable shoe ordering platform with inventory and secure transaction management. Team size: 2.

## Skills

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**Expertise Area:** Web Dev (HTML, CSS, React, Next.js), Django, Flask, NumPy, PyTorch, TensorFlow  
**Languages:** Python, C/C++, Java, JavaScript, MySQL, Haskell  
**Tools & Tech:** Git, GitHub, Linux, Figma, Docker, RStudio, JavaFX, Canva, Miro, PixelArt, Google Colab, WSL, Bash Shell, Vertex AI, LangChain, Hugging Face, Scikit-learn  
**Electives:** Operating System, Computer Organisation, Data Structures and Algorithms, Computer Networks, Database Management System, Artificial Intelligence, Machine Learning, Mobile Computing, Adv. Programming

## Positions Of Responsibility

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- Organizing team member for campus events at IIITD:
  - **ASTRA (Sports Fest)** – 2023, 2024
  - **ODYSSEY (Cultural Fest)** – 2023, 2024
  - **E-Summit (Entrepreneurship Fest)** – 2024
  - **ESYA (Tech Fest)** – 2024