

DHRUMAN GUPTA

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EDUCATION

Ashoka University

B.Sc (Hons) in Mathematics and Computer Science with Research; CGPA: 3.91/4; Major CGPA: 4.0/4 Expected 2027

Pathways School Noida

Class XII, International Baccalaureate (IB); Score: 96%

2023

RELEVANT COURSEWORK

- Real Analysis
- Design and Analysis of Algorithms
- Introduction to Machine Learning
- Reinforcement Learning

RESEARCH EXPERIENCE

Undergraduate Researcher

August 2024 – Present

Safexpress Centre for Data, Learning and Decision Sciences

- Developing high-performance agent-based simulations to model disease dynamics in India; exploring pruning techniques to improve performance.
- Exploring diffusion models to be able to sample from rare events efficiently.

Research Intern

Feb 2024 – Dec 2024

KOITA Centre for Digital Health Ashoka

- Researched predicting ICU mortality using ML, achieving 10% improvement - SCCM Congress 2025
- Developed architecture for a health cohort study, integrating with wearable devices and third party apps.
- Built an agentic solution to automate informed consent, with an emphasis on empathy and

WORK EXPERIENCE

Platform Teams Intern

Nov 2024 – Jan 2025

SARVAM AI

- Revamped the internal logging system, enabling enhanced analysis and monitoring of agent performance.
- Developed a comprehensive data management platform enabling test case creation, tracking, and labeling of model calls and data, significantly streamlining the workflow for the models team.
- Reduced CI/CD pipeline latency by 40% through Docker optimization and layer caching strategies.

Founding Engineer

Jan 2024 – July 2024

SARVAM AI

- Developed a suite of end-to-end services to facilitate fully automated AI-based calls, integrating with CMSs
- Created server designs for on-premise and GDPR-compliant deployments for flexible deployment options
- Developed a year-long technical roadmap along with projected costs to pitch for the seed round

POSITIONS OF RESPONSIBILITY

HOD, Dev Vertical

Feb 2024 – Present

Ashoka Computer Science Society

- Mentored 10-member team to build real-world projects through weekly meetings and structured feedback.

Co-Founder and Deputy Head of Projects

Mar 2024 – Dec 2024

Ashoka Health Research Club

- Ideated and co-founded AHRC, leading brainstorming, marketing, and selection processes.
- Lead implementation of an inclusive framework to connect students with KCDHA associated faculty research.

PUBLICATIONS

Ensemble model with inherently good quality data improves early mortality prediction in ICUs July 2024

Critical Care Medicine

- Developed a novel ensemble model and methods to identify high-quality subsets of ICU data, significantly enhancing early mortality prediction accuracy in ICU patients.

TECHNICAL SKILLS

Languages: Python, JavaScript, Julia, Scala, OCaml, HTML, CSS

Frameworks: PyTorch, FastAPI, Django, Pandas, NextJs, React Native, LangChain