RUSHIL GUPTA

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EDUCATION

Ashoka University

B.Sc (Hons) in Mathematics and Computer Science with Research; CGPA: 3.84/4; Major CGPA: 4/4　　　　*Expected 2027*

Pathways School Noida

Class XII, International Baccalaureate (IB); Score: 92%　　　　*2023*

RELEVANT COURSEWORK

- Real Analysis
- Introduction to Quantitative Finance
- Introduction to Machine Learning
- Reinforcement Learning

RESEARCH EXPERIENCE

Undergraduate Researcher　　　　Aug 2024 – Present

Safexpress Centre for Data, Learning and Decision Sciences

- Developing agent-based models to understand disease spread in India; currently exploring pruning techniques.
- Exploring diffusion models to sample from the tails of distributions efficiently.

Research Intern　　　　Feb 2024 – Dec 2024

KOITA Centre for Digital Health Ashoka

- Developed infrastructure for a cohort study integrating data steams from multiple wearables and a custom app.
- Worked on an LLM solution to automate informed consent, leveraging agentic models for improved performance.
- Researched early-stage ICU outcome prediction using ML, achieving a 10% improvement in accuracy.

WORK EXPERIENCE

Platform Teams Intern　　　　Nov 2024 – Jan 2025

SARVAM AI

- Designed a robust versioning system for voice agents enabling incremental updates and seamless deployment.
- Implemented the first unit and integration tests for backend microservices, improving API reliability

POSITIONS OF RESPONSIBILITY

Head of Events　　　　Sep 2023 – Present

Ashoka Computer Science Society

- Led a team of 20 members in planning and executing events, including talks, workshops, and mixers.
- Initiated Leetcode Saturdays; hosted weekly competitive programming sessions for students to solve problems.

Co-Founder and Head of Events & Logistics　　　　Mar 2024 – Dec 2024

Ashoka Health Research Club

- Ideated and co-founded the club, being involved in the selection process of the core and events team.
- Established a framework connecting students with faculty research, offering observership and internship tracks.
- Executed a 5-day launch event series in collaboration with 4 academic societies to promote health research.

PUBLICATIONS

Ensemble model with inherently good quality data improves early mortality prediction in ICUs　Jan 2025

Critical Care Medicine

- Developed a novel ensemble model and methods to identify high-quality subsets of ICU data, enhancing early mortality prediction accuracy in ICU patients by 10%.

TECHNICAL SKILLS

Languages: Python, JavaScript, Julia, Scala, OCaml, HTML, CSS
Frameworks: PyTorch, FastAPI, Django, Pandas, NextJs, React Native, LangChain
Tools: Docker, Git, CI/CD, AWS, GCP, Firebase, PostgreSQL, Redis