RUSHIL GUPTA

8375911611 | rushilgupta4@gmail.com | linkedin.com/in/rushilgupta4 | github.com/RushilGupta4

EDUCATION

Ashoka University

B.Sc (Hons) in Mathematics and Computer Science with Research; CGPA: 3.84/4 *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 Dec 2024 – Present

Safexpress Centre for Data, Learning and Decision Sciences

- Developing scalable agent-based epidemiological models for disease spread across Indian cities.
- Exploring diffusion models to enhance rare event sampling techniques.

Research Intern Feb 2024 – Dec 2024

KOITA Centre for Digital Health Ashoka

- Developed infrastructure for a cohort study integrating data steams including GOQii, a custom mobile app, etc.
- 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 – Feb 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 academic events.
- Initiated Leetcode Saturdays - weekly competitive programming sessions for students to solve problems together.

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.
- 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, 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
Tools: Docker, Git, CI/CD, AWS, GCP, Firebase, PostgreSQL, Redis