Ashish Mishra

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Objective

Seeking an opportunity in the IT industry to gain hands-on experience, enhance my technical and analytical skills and contribute effectively to organizational goals. Eager to learn, adapt, and grow in a challenging environment.

Education

Indraprastha Institute of Information Technology Delhi (IIITD)
M.Tech in Computer Science And Engineering — Current CGPA: 8.32
2024 – Present

Noida Institute of Engineering & Technology
B.Tech in Information Technology — CGPA: 8.17
2020 – 2024

Technical Skills And Achievements

Technical Skills

- **Programming Languages:** C, C++, Python, SQL
- **Web Technologies:** HTML, CSS, JavaScript, Bootstrap, Node.js, Express.js, React.js
- **Database Management:** MySQL, MongoDB
- **Cloud Platforms:** AWS (EC2, S3, RDS), Google Cloud Platform
- **DevOps Tools:** Docker, Kubernetes, Apache JMeter, Grafana
- **Version Control:** Git, GitHub
- **Operating Systems:** Windows, Linux

Interest Area

- Operating System, Object Oriented Programming
- Database Management System, Computer Networks

Achievements

- Earned Rajya Puraskar in Scouts and Guides.
- Qualified GATE 2023 & GATE 2024
- Solved 500+ DSA problems on different coding platforms
- Achieved CEFR Level B1 in Business English Certificate (Cambridge).
- Got full tuition Fee Waiver seat at NIET in IT department.

Experience

- **M.Tech Research - Utilizing Multipath UDP for Optimizing Tail Latency** — Nov 2024 – Present

- Optimized **edge device network performance** using multipath UDP with **Forward Error Correction (Turbo codes, Reed-Solomon)**.
- Designed a **real-time communication system** using **Multipath UDP** with **Forward Error Correction techniques** like **Turbo codes** and **Reed-Solomon**, addressing packet loss in low-latency edge networks.
- Integrated a **Transformer-based neural model** for adaptive recovery in time-constrained, loss-prone networks.

Projects

- **Doctor Hunt: A Locality-Based Doctor Appointment System** — Jan 2025 – May 2025

Guide: Dr. Rinku Sah (Professor, IIITD)

- Developed a **scalable** web application for booking patient appointments and managing doctor schedules using a **microservice-based architecture**.
- Designed independent User Management, Doctor Booking and Database microservices for modularity and scalability.
- Deployed on **Google Cloud Platform** with **Docker and Kubernetes**.
- Enabled support for **10,000+ concurrent users** with **Apache JMeter** and monitoring via **Prometheus and Grafana**.

- **Headlines 360: News App** — Jan 2025 – May 2025

Guide: Dr. Arani Bhattacharya (Professor, IIITD)

- Built a **Kotlin-based** personalized news app using NewsAPI.
- Added features like keyword/date-based search, adaptive UI using light sensor, **Text-to-Speech**, and user behavior tracking.

- **Video Compression Using Machine Learning** — Aug 2024 – Nov 2024

Guide: Dr. Vinayak Abrol (Professor, IIITD)

- Created ML-based video compression using **keyframe extraction, interpolation, optical flow**, and histogram difference.
- Optimized video size without quality loss.

Positions of Responsibility

- **Teaching Assistant, Object Oriented Programming & Design** — Aug 2025 – Present
  Conducting demos and clearing doubts.
- **Teaching Assistant, System Programming** — July 2025 – Aug 2025
  Helped in lab sessions and created tutorial content.
- **Teaching Assistant, Valuation and Portfolio Management** — Jan 2025 – May 2025
  Conducted tutorials, cleared doubts, graded assignments.
- **Teaching Assistant, Discrete Mathematics** — Aug 2024 – Dec 2024
  Held tutorials, resolved queries, assisted in evaluation.

Key Courses

- Mobile Computing
- Machine Learning
- Graduate Algorithms
- Computer Networks
- Graduate Systems
- Cloud Computing

Interests and Hobbies

- **Music:** Piano Player
- **Sports:** Cricket, Basketball