

# Anshu Anand Jha

B.Tech+M.Tech (Dual Degree - Data Science)  
Bachelor of Technology  
National Institute of Technology, Patna

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## EDUCATION

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- **B.Tech+M.Tech (Dual Degree) in Computer Science & Engineering (Data Science)** 2023-2028  
*National Institute of Technology, Patna* CGPA: 8.63
- **Senior Secondary** 2022  
*Central Board of Secondary Education* 92.2%
- **Secondary** 2020  
*Central Board of Secondary Education* 93.8%

## EXPERIENCE

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- **College Intranet Portal** 2025  
*Backend Engineer* Patna, India
  - Diagnosed and patched critical SQL vulnerabilities and logical bugs ensuring accurate data retrieval.
  - Architected the ‘Student Attendance’ module with a ‘Save as Draft’ workflow, reducing faculty data-entry errors by providing a pre-submission review layer.
- **Hackslash Developers Club** 2023 - 2025  
*Web Developer* Patna, India
  - Regularly updated website content and code, ensuring 99% uptime and consistent performance across mobile and desktop devices.
  - Led an interactive JavaScript study session for club members, fostering skill development in core programming concepts and driving peer-to-peer technical learning.

## PERSONAL PROJECTS

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- **Cloud Deployment Automation** 2024 - 2025  
*Automating builds and deployments similar to Vercel*
  - Automated build server with GitHub integration, Dockerized builds, and AWS S3 storage.
  - Built Node.js API for deployment automation using AWS ECR and ECS.
  - Implemented reverse proxy using Node.js and Nginx to optimize request handling.
  - Technology Used: Next.js, Node.js, Nginx, AWS (S3, ECR, ECS), Docker, Git.
- **Research Paper Implementation** 2025 - 2026  
*Implemented proposed models in PyTorch across multiple ML papers*
  - Implemented ResNet on CIFAR-10 dataset achieving 92% accuracy; implemented Decoder architecture from *Attention is All You Need*.
  - Implemented Neural Collaborative Filtering on MovieLens-1M dataset, achieving Hit Ratio (HR@10) of 0.73.
  - Implemented Bayesian Personalized Ranking on MovieLens-100k, achieving AUC score of 0.92.
  - Implemented SASRec and CL4SRec on Amazon Beauty dataset, achieving NDCG@10 of 0.42 and 0.46 respectively.
  - Technology Used: PyTorch, JupyterNotebook.

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Python, Java, JavaScript, TypeScript

**Data Science & ML:** PyTorch, NumPy, Pandas, Scikit-Learn, Matplotlib, Recommender Systems

**Web & Backend:** Next.js, React.js, Node.js, Express.js, Nginx, MongoDB, SQL

**Cloud & Deployment:** AWS (EC2, S3, IAM), Docker, Git, GitHub, Linux

**Areas of Interest:** Data Science, Machine Learning, Cloud Deployment, Web Development.

**Soft Skills:** Problem Solving, Self-learning, Adaptability

## ACHIEVEMENTS

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- **Top 10 Finalist** – VLabs Competition, Dayalbagh Educational Institute (DEI)
- **Leetcode Knight Badge** – Max Rating: 1809+

## POSITIONS OF RESPONSIBILITY

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- **Technical Mentor & Evaluator** – Byteverse Annual Hackathon, NITP 2024-2025