Kshitij Sharma

⚙ meetthehorizon in kshitij-sharma-horizon ✉ kshitij.sharma.cse22@itbhu.ac.in

EDUCATION

IIT (BHU) Varanasi	Oct 2022 - Current
B.Tech. Computer Science	*Current GPA: 8.97/10.0*
KV CRPF Bijnaur	2018-2020
Secondary School	*GPA: 94.8/100.0 %*
KV CRPF Bijnaur	2020-2022
Sr Secondary School	*GPA: 95.8/100.0 %*

COURSEWORK

Data Structures, Algorithms, Operating System, Artificial Intelligence, Computer System Organization, IT Workshop - I (Bash and Python), IT Workshop - II (Django and SQL), Probability & Statistics, Discrete Mathematics

SKILLS

Languages: C/C++, Python, Java, JavaScript, LaTeX
Tools: Git/GitHub, Unix Shell, VS Code, HPC Cluster
Frameworks: PyTorch, Django, SpringBoot, ReactJS

INTERNSHIPS

Intern	**Rubrik**
Upcoming Internship	May 2025 - July 2025 (anticipated)

- Joining Rubrik, a leader in data security and cloud management, focused on data protection and cyber resilience.
- Rubrik's platform uses zero trust architecture and AI to secure backups, monitor threats, and safeguard sensitive data.
- Headquartered in Palo Alto; publicly listed on the NYSE since April 2024.

PROJECTS

Face Recognition Model	Jan 2024 - March 2024

- Implemented Part-fViT face recognition model using the Vision Transformer architecture to predict identity
- Built the model from the ground up, utilizing basic layers from PyTorch
- **Skills and Tools:** Python, PyTorch, Transformers, Computer Vision, and HPC Computing

under Prof. Tanima Dutta

Classification of Molecules	*PyTorch, Numpy, MatplotLib, Seaborn, shutil* — Dec 2023 - Feb 2023

- Implemented U-Net model from scratch in PyTorch for lung semantic segmentation, achieving 85% accuracy.
- Trained the model using numpy, matplotlib, and shutil for data handling and visualization, ensuring robust performance and accuracy.
- Developed custom loss functions and data augmentation techniques to optimize model training for accurate lung segmentation results.

under Prof. Tanima Dutta

TPC Log System	*Django, Web Sockets, Git, Unix Shell, VS Code* — Nov 2023 - Dec 2023

- Developed TPC Log System with Django, enabling students to view interview updates and TPC members to assign and track student duties.
- Implemented a user-friendly interface for easy navigation and efficient communication between students and TPC members.
- Engineered a duty assignment module, utilizing Django's ORM for flexible and scalable task management within the system.

under Prof. Amrita Chaturvedi

Position of Responsibility

Training and Placement Cell | *Representative*   April 2023 – Present
TPR of the 2026 batch of Computer Science and Engineering at IIT (BHU)

Competitive Programming Club | *Member*   July 2023 – Present
Conducted Multiple Workshops for Freshers and Problem Setter for NP Compete '24

Achievments

Competitive Programming

- Candidate Master on Codeforces (Artistic_Conjurer) with a max rating of 1986 **(top 3 percentile globally)**

- 5 Star on Codechef (ks_05) with a max rating of 2095 **(Indian Rank 527)**

- Global Rank 154 in Codeforces Round#955 (Div 2)

- Global Rank 216 in Codeforces Round#166 (Edu Div 2)

- Global Rank 12 in Codechef Starters 140 (Div. 1) and 22 in Starters 121 (Div. 2)

- Completed Google Foobar Challenge, an invitation only event from Google

Academic Achievments

- Secured All India Rank 426 in JEE Advanced 2022 among more than 1,50,00 shortlisted candidates

- Secured All India Rank 500 in JEE Mains 2022 among more than 11,00,00 shortlisted candidate

- Secured All India Rank 1024 in Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship program (SX Stream) 2022 conducted by IISc Bangalore

- Secured All India Rank 22 in National Entrance Screening Test NEST 2022 fellowship program (SX Stream) 2022 conducted by NISER among more than 25,000 applicants

Competitions

- Winner of Vista '24 a Computer Vision Kaggle Competition organized in Codefest 2024, IIT BHU.

- Winner of Arithmetica '24, a Quant Puzzle Competition organized in Codefest 2024, IIT BHU.

- Winner of Devbits '24, a Coding Round + Hackathon organized in UDYAM 2024, IIT BHU.