OJAS

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Education

Netaji Subhas University of Technology   May 2021 - May 2025
B.Tech. in Computer Science with Artificial Intelligence   *New Delhi, India*

Kendriya Vidyalaya Shalimar Bagh, Delhi
CBSE Class XII   **2021**
CBSE Class X   **2019**

Experience

Morgan Stanley   *May 2024 - July 2024*
Technology Analyst   *On-site*
- Architected and deployed a **distributed caching** system using Hazelcast and Java for a critical Spring Boot microservice, enhancing **system reliability** and reducing average **response time** by 70%.
- Designed **cache policies** and **invalidation strategies** to maintain data consistency in a distributed environment, reducing data staleness by 95% and **decreasing database load** by 60%.
- Improved system scalability through optimized caching, enabling the service to handle a **3x increase in concurrent users** while maintaining performance integrity.

Mahindra Logistics   *Feb 2024 - Mar 2024*
Software Engineering Intern   *Remote*
- Engineered a **full-stack** KPI monitoring application using Next.js for frontend, optimizing backend APIs with Node.js and MySQL, resulting in a comprehensive performance tracking system.
- Implemented advanced **caching strategies** and **query optimizations**, reducing API response times by 30% and enhancing overall application performance.
- Redesigned user interface applying UX best practices, leading to a 40% increase in **user engagement** and significantly improved **navigation efficiency**.

Skills

- Programming languages: Python, C++, JavaScript, Java
- Development: HTML, CSS, ReactJs, Nextjs, ExpressJs, React Native, Springboot
- Machine learning: Numpy, Pandas, MatPlotLib, Scikit Learn, Pytorch
- Version control: Git, GitHub, Docker
- Database: MongoDB, MySQL, DB2

Projects

Verify Bharat | *Blockchain, Express, ReactJS*
- Architected a decentralized platform leveraging **Ethereum blockchain** for tamper-proof document verification, achieving 100% data integrity through **IPFS** storage.
- Engineered **smart contracts** for granular access control, enabling secure document sharing with 256-bit encryption, while maintaining an average transaction speed of 15 seconds on the Ethereum network.

AdoptConnect | *ReactJs, MongoDB, Express, Flutter, Figma,*
- Developed a **multilingual** web and mobile app with a **custom backend** to facilitate orphaned child adoption for the non-profit organization **"Bal Asha Trust"**, expected to increase adoption rates by an impressive 23%.
- **Designed** a modern UI with best practices and **implemented** it in **reactJs**, resulting in a 10% enhancement in user **engagement** and control.

Snake RL | *Python, Reinforcement learning, PyTorch*
- Implemented advanced **neural network architectures** in PyTorch with a robust reward system and state representation for **autonomous strategy improvement**.
- Worked with **epsilon-greedy policy** to balance exploration and exploitation, resulting in an agent that **surpassed** human-level performance after 500 training episodes.

Honors and Awards

- Acquired **First** position in **Mahindara Logistics Catapult Techathon** 2024 at all India level.
- Clinched the **First Place** at Morgan Stanley's prestigious "Code to Give" Hackathon 2023.
- Served as an **Expert Judge** at the World Robot Olympiad (W.R.O.) National Championship 2022.
- Among **top** 30 teams selected for **nationals** Smart India Hackathon'23.

Position of Responsibility

1. **Head, Media** | *Moksha-Innovision NSUT, The Annual Cultural and Technical Fest of NSUT*
   - Spearheaded a **12-member team** for securing **sponsorship**, **managing and producing content** and **event coverage**.
2. **Core Team** | *TedX NSUT, The Ted chapter of NSUT*
   - Managed a diverse team of **9 volunteers**, orchestrating **speaker invitations**, content curation, and comprehensive event coverage