



YUVRAJ SINGH CHOWDHARY

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EDUCATION

- **Netaji Subhas University of Technology** New Delhi, India
• *B.Tech - Computer Science Engineering; CGPA: 8.83 (upto 6th Semester)* July 2021 - Present
• *Coursework: Database Management Systems, Data Structures, Operating Systems, Computer Networks, Object-Oriented Programming*

WORK EXPERIENCE

- **Software Engineering Associate Intern** June 2024 - Present
• *HCLTech, Noida, India*
 - **Performance Optimization:** Applied indexing and query optimization techniques to reduce data retrieval times by 35%. Refactored REST API endpoints and implemented caching strategies, achieving a 30% decrease in response times and improving overall system throughput
 - **Automation and Integration:** Automated task scheduling using Python and integrated RabbitMQ for message queuing, leading to a 25% reduction in manual processing time and a 20% increase in system reliability
- **Research Intern** February 2024 - April 2024
• *IGDTUW, Delhi, India*
 - **5G and IoT Integration:** Designed and implemented algorithms for integrating 5G networks with IoT devices using network slicing and edge computing, enhancing data throughput and reducing latency by 40%
 - **Deep Learning for Object Detection:** Developed and deployed YOLOv5 for real-time object detection using Jetson Nano, enhancing detection accuracy by 25% and reducing false positives by 20%

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C/C++, SQL, Solidity
- **Libraries & Frameworks:** React, Redux, Node.js, Express, Flask, FastAPI, Keras, TensorFlow, Scikit-learn, Tailwind CSS
- **Tools & Platforms:** Git, Docker, Kubernetes, CI/CD, Jupyter, Figma, Google Firebase, Power BI, AWS, GCP, Azure
- **Databases:** MongoDB, PostgreSQL, MySQL, Redis, Oracle Autonomous Database
- **Technologies:** MERN Stack, REST APIs, DevOps, Machine Learning, Generative AI, Blockchain

PROJECTS

- **Self-Driving Car Simulation (RL):** Python, TensorFlow, OpenAI Gym. **95% accuracy.** Simulates autonomous drive 🏆
- **Multilingual NLP Translator:** Python, PyTorch, Transformer. **92% accuracy.** Translates text across 10 languages 🏆
- **CacheGuard:** C, OpenSSL, POSIX, Sockets. Speedy proxy with cache, multi-threading, bandwidth control, **25% faster** 🏆
- **Context-Aware Discord Bot:** Python, Discord API, Gemini API. Manages **15 contexts** in conversations 🏆
- **MultiPDF Chatbot (Symphony IO):** Python, Streamlit, OpenAI API. Powered up PDF access by **40% faster** 🏆
- **A3C-Based KungFu Game:** Python, TensorFlow, OpenAI Gym. **85% win rate.** Uses A3C for game strategy 🏆

PUBLICATIONS

- **Chowdhary, Y. S., and G. Singh. "The Convergence of IoT and 5G: Transforming Connectivity in Smart City Applications."** Second International Conference on Intelligent Cyber Physical Systems and Internet of Things, 2024.

LEADERSHIP EXPERIENCE

- **Project Lead, CLAIR** March 2023 - Dec 2023
• *Enactus NSUT, New Delhi, India*
 - **Overview:** Led 50+ members to develop an affordable air purifier, improving air quality for 50,000+ residents. Won 1st place at National Exposition 2023, IITD (Cash Prize Rs 2.5 lakhs)
- **Project Lead, Project ANNOTSAV** April 2023 - Present
• *Enactus NSUT, New Delhi, India*
 - **Overview:** Directed 40+ members in implementing a smart irrigation system for 500+ farmers. Secured 1st place at World Races 2023, Enactus India HQ (Cash Prize Rs 35,000)
- **Representative, Project URJA** Feb 2024 - Present
• *Enactus NSUT, New Delhi, India*
 - **Overview:** Contributed to a project harnessing vehicular energy for the national grid. Achieved 1st place at ENEXUS 2023, Hindu College, DU (Cash Prize Rs 10,000)

ACHIEVEMENTS

- **Kaggle Expert:** Achieved Kaggle Expert ranking by delivering advanced machine learning solutions across 25+ projects 🏆
- **Microsoft Certified GenAI Developer:** Demonstrated expertise in generative AI technologies 🏆
- **5-Star SQL Coder:** Earned 5-star rating on HackerRank, showcasing exceptional SQL proficiency 🏆
- **Algorithmic Skills:** Solved 300+ coding problems on LeetCode and Code 360 @Naukri 🏆
- **Academic Excellence:** Ranked in the top 1% of students with a 9.8 SGPA in the 3rd semester at NSUT Delhi