Sushant Sharma

Windsor, Ontario | (226) 961-5873 | sharmas1@uwindsor.ca
www.linkedin.com/in/sushantsharma22 | sushantsharma22.github.io/Portfolio | github.com/sushantsharma22

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, C
- **Deep Learning:** LLMs, Transformers, Reinforcement Learning, NLP, Multimodal AI, Model Optimization, Generative AI
- **Libraries & Frameworks:** PyTorch, TensorFlow, OpenCV, ONNX Runtime, TensorRT, Scikit-learn, HuggingFace
- **Platforms & Tools:** Jupyter notebook, Git, PyCharm, VSCode, Ubuntu, GitHub
- **Key Proficiency:** Parallel Model Training, AI Model Deployment, Fine tuning LLMs, Generative AI, Optimization

EDUCATION

Master of Applied Computing May 2024 – September 2025
University of Windsor, Windsor, Ontario

- **Final Available for full time opportunities starting Fall 2025.**

Coursework: Advanced Database Systems, Internet Applications and Distributed Systems, Advance Software Engineering
Minor: Artificial Intelligence and Finance at Global Perspective

Bachelor of Technology in Computer Science and Engineering July 2019 - June 2023
Lovely Professional University, Punjab, India
Coursework: Predictive Analysis, Android, Cloud, Data Engineering, Data Visualization, Data Structures and Algorithms

EXPERIENCE

Machine Learning Engineer June 2023 – April 2024
NK Industries, Una, India

- Developed Python-based ML analytics**,** reducing consultant reliance and saving ₹15,000 annually.
- Built predictive analytics models to minimize inventory wastage, optimize financial decisions, and cut costs by 15%.
- Automated reporting for decision-making**,** enhancing productivity by 20%.

Tech Event Coordinator October 2019 - April 2022
Gravity LPU, Punjab, India

- Coordinated events using project management tools (MS Project, MS Excel, MS Word etc.), enhancing operational efficiency.
- Led 50+ coding events, engaging 200+ participants, improving team problem-solving by 20%.

PROJECTS

LiveSolve3D: AI-Powered 3D Sudoku Wizard (2024)
Python, OpenCV, Keras, TensorFlow, NumPy, Multi-threading, Pandas, Human Computer Interaction

- Created a Vision Based AI Sudoku solver with 99%-digit recognition accuracy, solving puzzles in under 3 seconds. Simulated 3D transformations for live solution overlay using OpenCV and TensorFlow.

Model Accelerator: Optimized Inference Pipeline (2024)
Python, C++, ONNX Runtime, OpenCV, PyTorch, Python, TensorFlow, CMake, SQL, GPUs

- Achieved a 50% reduction in inference time and improved model efficiency by implementing optimizations and parallel preprocessing images using ONNX Runtime and OpenCV.

TermAI Infinity: Advanced LLM Workflow Engine (2024)
Python, LangChain, Transformers, Chroma, Chain-of-Thought Reasoning, Summarization, SQL, Generative AI, RAG, GPUs

- Built a fully offline, modular LLM suite enabling multi-step reasoning, retrieval-augmented Q&A, chunk-based summarization, and iterative refinement, ensuring complete data privacy without external APIs.

SmartPay-UPI: QR-Based Payment System (2025)
Python, Blockchain, OpenCV, QR Code APIs, SMTP, bcrypt, SQL, JSON, CSV

- Developed a secure payment platform featuring QR code transactions, automated email notifications, CSV/JSON-based data management, role-based access, and blockchain-backed security for enhanced scalability and reliability.

CONFERENCES

Twitter Sentiment Analysis on COVID-19

- Presented at ICCS-2023 (KILBY100), showcasing NLP techniques using Python and applying diverse ML algorithms for performance metrics, maintaining data pipelines, and statistical analysis in multimodal sentiment analysis.

CERTIFICATES & TECHNICAL TRAINING

Machine Learning Certification by Andrew Ng, Coursera
Artificial Intelligence with Deep Learning, Udemy