

Kunal Sood

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Education

Shri Vishwakarma Skill University, B.Tech in Computer Science and Engineering (AI & ML) Jul 2022 – Present

- CGPA: 8.63/10 **Coursework:** Machine Learning, Deep Learning, NLP, Computer Vision, Statistical Analysis, DBMS, Quantum Computing, Business Intelligence and Analytics

Experience

AI Engineer Intern, SOFTEL – Noida, India Mar 2026 – Present

- Constructed an autonomous AI agent leveraging deep learning to ingest and process real-time multimodal environmental data streams via the Earth2 platform, enabling sub-second geospatial intelligence pipelines.
- Architected an end-to-end NLP and geospatial pipeline ingesting LLM chat outputs, extracting structured events with locations, timestamps, and coordinates via named entity recognition, and converting results to GeoJSON for downstream mapping APIs.
- Orchestrated interactive map visualization via LLM driven parsing combined with geocoding APIs, eliminating over 90% of manual annotation effort for real-time event monitoring use cases.

Data Science Intern, Defence Research and Development Organization (DRDO) – New Delhi, India Aug 2025 – Jan 2026

- Designed adversarial deep learning models in Python, TensorFlow, and Keras to evaluate the robustness of neural encryption systems, reducing adversarial generalization to near-random performance (approximately 50% accuracy).
- Engineered custom neural architectures and novel loss functions achieving 98% authorized decoding fidelity; identified and validated multiple novel information leakage vectors via statistical plaintext and ciphertext distribution analysis.

Machine Learning Engineer, Omdena – Remote Jan 2025 – Apr 2025

- Processed and modeled 60,000+ multisource datasets (images, videos, text), improving model accuracy from 75% to 94% through data refinement and architecture tuning across global AI challenges.
- Spearheaded product development as Product Owner for a systematized pothole detection system in Kolkata and a plant disease detection solution for smallholder farms in Kenya, coordinating cross functional international teams across 3 continents.
- Delivered 3 production ready ML solutions – real-time sign language translation, AI powered VR training simulator, and carbon management forecasting system – within sprint deadlines.

Research Intern, Globus Eight – Gurugram, India Jul 2024 – Aug 2024

- Developed deep learning lip synchronization and audio-video alignment models using Python, OpenCV, and TensorFlow, achieving under 80 ms audio-visual lag and generating high-fidelity AI-driven talking avatars validated through qualitative and quantitative benchmarks.

Projects

InterviewJinni – AI-Powered Adaptive Mock Interview Platform GitHub

- Developed an LLM-driven platform that dynamically adapts question difficulty in real-time; integrated analytics dashboards and automated feedback modules, reducing candidate preparation time by 90%.

FoliageAI – Automated Tree Species Classification Pipeline GitHub

- Designed a computer vision ML pipeline achieving 98% accuracy by fine-tuning deep CNNs; optimized inference latency by 35% across 50+ species categories using TensorFlow and Scikit-learn.

BCG Data Science Simulation – Customer Churn Prediction Link

- Performed feature engineering on customer usage and billing data; trained and optimized a Random Forest classifier achieving 85% churn prediction accuracy, enabling data-driven retention strategies.

Publications and Patents

Secure Reversible Transformations through Neural Coupling Architecture 2026

Sood, K., Singh, R., Mishra, G. IRE Journals – Paper ID: 1715290 *Best Student Presenter, ICMSCI-2026*

ShineMate (Design Patent, App. No.: 421100-001) – Autonomous cleaning robot with deep learning navigation and IoT air-quality monitoring.

GuruJi (Patent App. No.: 202411089768) – AI-driven MOOC development platform reducing course creation time from days to minutes using LLM-based content generation.

Technologies

Languages: Python, C/C++, SQL (MySQL, BigQuery), Bash

ML and Data Science: Scikit-learn, NumPy, Pandas, SciPy, Statistical Modeling, Feature Engineering, ETL Pipelines

Deep Learning and NLP: TensorFlow, Keras, PyTorch, LangChain, LLMs, RAG, Transformers, Computer Vision, OpenCV, spaCy

Cloud and Tools: GCP (BigQuery, GCE, Cloud Storage), REST APIs, GitHub, GitLab, Docker, Matplotlib, Seaborn

Certifications

- **Data Scientist Career Track** – DataCamp
- **Machine Learning Specialization** – Coursera
- **Neural Networks and Deep Learning** – Coursera
- **SQL for Data Science** – Coursera
- **ML 101: Scikit-learn and StatsModels** – Udemy

Achievements

- Awarded **Best Student Presenter** at ICMSCI-2026 for research on neural encryption, organized by University of Delhi, IIT Mandi, and NIT Uttarakhand.
- Presented AI projects (GuruJi, ShineMate, InterviewJinni) to the **Hon'ble Chief Minister of Haryana** (2025); contributed technology insights for the **Haryana State Budget 2025–26**.
- Showcased GuruJi to the **Hon'ble Governor of Haryana** (2024); discussed patent roadmap with the **Minister of Skill Development and Entrepreneurship** (2024).
- Founded and directed **GDG on Campus SVSU Chapter** (2025–26), organizing AI workshops and hackathons for 100+ students.