

Kunal Sood

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Leetcode: <https://leetcode.com/u/ksood315>

Skills

Languages: C/C++, Python, Bash, MySQL

ML & Data Science: Scikit-learn, NumPy, Pandas, SciPy, NLP

Computer Vision: OpenCV, Keras, TensorFlow, Deep Learning, Scikit-Image

Visualization: Matplotlib, Seaborn

Technologies & Tools: BigQuery, GCE, Cloud Storage, GitHub, GitLab

Professional Skills: Leadership, Program Management, Product Management, Project Management, Community Building, Public Speaking, Stakeholder Engagement

Work Experience

DRDO, New Delhi

Aug 2025 - Present

Data Scientist Intern

- Engineered adversarial neural networks (TensorFlow/PyTorch) to bolster encryption robustness.
- Analyzed cipher-text and plain-text datasets to identify security patterns and improve cryptographic learning efficiency.
- Implemented and optimized encoder-decoder-attacker architectures with custom loss functions for adversarial resistance.

Omdena, Remote

Jan 2025 - Apr 2025

Machine Learning Engineer

- Compiled and preprocessed a unified corpus of 60,000+ multi-source sign language samples (images, videos, landmarks).
- Trained and evaluated CNN and LSTM architectures, boosting model accuracy from 75% to 94% on a refined dataset.
- Designed and executed NLP preprocessing pipelines (cleaning, tokenization, semantic analysis) for real-time sentiment understanding.

Globus Eight, Gurugram

Jul 2024 - Aug 2024

Research Intern

- Researched ethical applications for deepfakes, surveying existing frameworks and datasets to identify gaps and opportunities for constructive use cases.
- Developed deep learning models for lip-sync and audio-video synchronization, successfully generating realistic, AI-driven talking avatars.

Project Work

- InterviewJinni (Present):** Built an AI platform for adaptive mock interviews with real-time analytics and performance feedback.
- GuruJi – Patent Filed (2024):** Created a rapid MOOC development tool reducing course build time from days to minutes through automated content generation.
- ShineMate – Design Patent (2024):** Developed a POC for an intelligent cleaning robot with autonomous navigation, obstacle detection, and air-quality monitoring.
- FoliageAI (2024):** Designed an ML pipeline for automated tree species classification achieving 98% accuracy.
- BCG Data Science Job Simulation:** Performed feature engineering and built a Random Forest model achieving 85% churn prediction accuracy.

Education

Shri Vishwakarma Skill University, Haryana

Sept 2022 - Present

B.Tech. in Computer Science and Engineering(AI & ML)

CGPA: 8.5/10

OOP, DSA, Databases, Machine Learning, Deep Learning, Data Analytics, Quantum Computing

Achievements

- Presented AI-driven projects ("GuruJi," "ShineMate," "InterviewJinni") to the Honorable Chief Minister of Haryana (2025).
- Advised on Haryana State Budget 2025–26, contributing insights on technology-led governance.
- Showcased "GuruJi" to the Honorable Governor of Haryana (2024).
- Discussed patents and outcomes of "GuruJi" and "ShineMate" with the Minister of State for Youth Empowerment (2024).
- Founded and led **GDG on Campus (GDGoC) SVSU Chapter (2025–26)**, organizing workshops and hackathons to promote AI and Google technologies.
- Directed AI initiatives at **Omdena**, optimizing farms in Kenya and deploying pothole detection in Kolkata.