

Kunal Sood

Data Scientist | New Delhi, India

• ksood315@gmail.com • +91 9464020580 • [Github](#) • [Linkedin](#) • [Leetcode](#) • [Portfolio](#)

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

Data Science Intern | DRDO, New Delhi | Aug 2025 – Present

- Engineered adversarial neural networks (TensorFlow/PyTorch) to bolster encryption robustness, achieving 100% training and testing accuracy for Bob (authorized receiver) while constraining Eve (adversary) to ~60% training accuracy and ~50–55% testing accuracy.
- Analysed 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.

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

- Compiled and pre-processed 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.

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

- Researched ethical deepfake applications by reviewing 15+ frameworks and datasets, identifying 5 key gaps and proposing constructive AI use cases aligned with responsible AI principles.
- Developed deep learning-based lip-sync and audio-video synchronization models, achieving <80 ms audio-visual lag and generating high-fidelity AI-driven talking avatars validated through qualitative and quantitative evaluation.

Project Work

InterviewJinni | [GitHub](#) : Built an AI platform for adaptive mock interviews with real-time analytics and performance feedback.

GuruJi – Patent Filed | [GitHub](#) : Created a rapid MOOC development tool reducing course build time from days to minutes through automated content generation.

ShineMate – Design Patent: Developed a POC for an intelligent cleaning robot with autonomous navigation, obstacle detection, and air-quality monitoring.

FoliageAI | [GitHub](#) : Designed an ML pipeline for automated tree species classification achieving 98% accuracy.

BCG Data Science Job Simulation | [Link](#) : Performed feature engineering and built a Random Forest model achieving 85% churn prediction accuracy.

Education

Bachelor Of Technology in Computer Science and Engineering (AI & ML) - CGPA: 8.5/10 | Shri Vishwakarma Skill University, Haryana | Jul 2022 – Present

Relevant Coursework: OOP, DSA, Databases, Machine Learning, Deep Learning, Data Analytics, Quantum Computing, Business Intelligence & Analytics

Certifications

- Data Scientist Career Track** — [DataCamp](#)
- Machine Learning Specialization** — [Coursera](#)
- Neural Networks and Deep Learning** — [Coursera](#)
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** — [Coursera](#)
- Structuring Machine Learning Projects** — [Coursera](#)
- SQL for Data Science** — [Coursera](#)
- ML 101 (Scikit-learn & StatsModels)** — [Udemy](#)

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.