

# Kunal Sood

Data Scientist | New Delhi, India

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## 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 – Jan 2026**

- 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](#)** : Created 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

**Shri Vishwakarma Skill University, Haryana**

*Jul 2022 – Present*

Bachelors Of Technology in Computer Science and Engineering (AI & ML)

*CGPA: 8.5/10*

**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 Honourable Chief Minister of Haryana (2025).
- Advised on Haryana State Budget 2025–26, contributing insights on technology-led governance.
- Showcased "GuruJi" to the Honourable 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.