Kunal Sood

Data Scientist | New Delhi, India

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Education

Shri Vishwakarma Skill University, Gurugram, India   *Jul' 2022 – Present*

Bachelors Of Technology in Computer Science and Engineering (AI & ML)   *CGPA: 8.63/10*

Patents & Intellectual Property

ShineMate – *Design Patent*

Proof-of-concept intelligent cleaning robot with autonomous navigation, obstacle detection, and air-quality monitoring.

Application No.: 421100-001

GuruJi – *Patent Application*

Automated MOOC development tool that reduced course creation time from days to minutes using AI-driven content generation.

Application No.: 202411089768

Work Experience

- **Data Science Intern, Defence Research and Development Organization, New Delhi, India**   *Aug' 2025 – Jan' 2026*
    - Designed and implemented adversarial deep learning models to evaluate and improve robustness of learned encryption systems under novel threat assumptions.
    - Engineered custom neural architectures and loss functions, achieving reliable authorized decoding while reducing adversarial generalization to near-random performance.
    - Analyzed plaintext–ciphertext distributions to identify and experimentally validate information leakage and model vulnerabilities.

- **Machine Learning Engineer, Omdena, Remote**   *Jan' 2025 – Apr' 2025*
    - Built and evaluated end-to-end ML pipelines across global AI challenges, applying computer vision, NLP, and deep learning to real-world social impact problems.
    - Processed and modeled 60,000+ multi-source datasets (images, videos, landmarks, text), improving model performance from 75% to 94% through data refinement and architecture tuning.
    - Delivered production-ready ML solutions including sign-language translation, AI-powered VR training, and carbon management systems in cross-functional, international teams.

- **Research Intern Globus Eight, Gurugram, India**   *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 | <u>GitHub</u> :** Built an AI platform for adaptive mock interviews with real-time analytics and performance feedback.
- **FoliageAI | <u>GitHub</u> :** Created an ML pipeline for automatized tree species classification achieving 98% accuracy.
- **BCG Data Science Job Simulation | <u>Link</u> :** Performed feature engineering and built a Random Forest model achieving 85% churn prediction accuracy.

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

Certifications

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

Achievements

- Presented AI-driven projects (**GuruJi, ShineMate, InterviewJinni**) to the **Hon'ble Chief Minister of Haryana** (2025).
- Showcased **GuruJi** to the **Hon'ble Governor of Haryana** (2024).
- Discussed Patent outcomes and innovation roadmap for **GuruJi** and **ShineMate** with the **Minister of State for Youth Empowerment** (2024).
- Contributed technology-led governance insights during consultations for the **Haryana State Budget 2025–26** with the **Hon'ble Chief Minister of Haryana** (2025).
- 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** as **Product Owner**, delivering solutions for **farm optimization in Kenya** and **pothole detection in Kolkata**.