KARAN KUMAR

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SKILLS SUMMARY

- **Languages:** Python, JavaScript, C++, Java, Dart
- **Frameworks:** Tensorflow, Scikit-learn, OpenCV, Transformers, Langchain, Flutter
- **Tools:** Jupyter Notebook, Kaggle, VS Code, Git, Docker, FlutLab, Android Studio, Slack
- **Platforms:** Hugging Face, Kaggle, Langchain, Google Colab, Github, Ollama
- **Soft Skills:** Problem Solving, Public Speaking, Team Collaboration

WORK EXPERIENCE

Programming Resource Centre Lead, CS Society Sukkur IBA University   **Nov 2024 - Present**

- Led the Programming Resource Centre to mentor freshmen in mastering core programming concepts.
- Coordinated a team of tutors to offer personalized assistance and problem-solving guidance.

Incubatee, NEP NIC Sukkur | Startup, Simper   **May 2024 - Aug 2024**

- Led AI-driven online exam system development, managing strategy and partnerships.
- Collaborated on a subscription platform for educators to simplify exam creation, grading, and assessment with AI.

EDUCATION

Bachelor of Computer Science
Sukkur IBA University Sukkur | 2022 - 2026 (Expected)

- Scholarship: Sindh Talent Hunt Program
- CGPA: 3.70

PROJECTS

Gesture Detection and Sign Language Interpretation   **Feb 2025 - April 2025**

- Developed a real-time sign language recognition system using CNNs, achieving 96% accuracy on ASL and LeapGestRecog datasets.
- Built a translation tool with MediaPipe and TensorFlow for automated text/audio output, enhancing accessibility for the deaf community.

Credit Card Fraud Detection Using Hybrid Model and XAI   **Dec 2024 - Feb 2025**

- Designed a hybrid fraud detection model with ensemble learning, autoencoders, and One-Class SVM, achieving 98.7% accuracy on imbalanced data.
- Applied Explainable AI (SHAP) for model transparency and to visualize key features influencing fraud predictions.

E-commerce Mobile Application   **March 2024 - May 2024**

- Developed a full-featured e-commerce mobile app using Flutter, incorporating all essential functionalities.
- Implemented features like product browsing, cart management, secure checkout, and user profiles for a seamless shopping experience.

CERTIFICATES

- **Machine Learning Specialization - DeepLearning.AI**   **Aug 2024**
- **Essential Generative AI Training - PakAngels**   **Oct 2024**
- **Problem Solving - HackerRank**   **May 2024**

AWARDS AND HONORS

- **Alternate Candidate | UGRAD Semester Exchange Program (Global Undergraduate Exchange Program)**   **Spring 2025**
- **Winner, Declamation Contest | Sukkur IBA University**   **March 2025**