

Har Aziz Singh

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SKILLS

Languages: C++ | C | SQL | Python | JavaScript | HTML | CSS
Tools/Platforms: Git | GitHub | PyTorch | TensorFlow
Soft Skills: Leadership | Ownership | Problem Solving | Team Collaboration | Leadership | Analytical Thinking

PROJECTS

- GraphCam** | [GitHub](#) | *AI/ML, CNN, Computer Vision, Analytical thinking, Attention to detail* Apr' 24
- Built a **CNN**-based system in **Python** to predict **equations from graph images**; implemented end-to-end training and inference pipeline.
 - Trained and deployed a custom model with **image preprocessing** and **feature extraction**.
 - Automated visual-to-symbolic graph interpretation using applied **computer vision** techniques – image preprocessing, feature extraction, **spatial pattern recognition**.
- NEST** | [GitHub](#) | *Flask, Python, Socket.io, PostgreSQL, Logical Reasoning, Systems thinking* May' 24
- Developed **real-time chat and notification** features for a **Flask** based social networking application using **FOAF**-modeled user relationships.
 - Enabled low-latency user communication and event-driven alerts by implementing backend logic with **Python, Socket.IO, and PostgreSQL**, supported by structured SQL schemas.
- Cattle Lens** | [GitHub](#) | *ResNet18, PyTorch, Computer Vision, Problem Solving, Team Collaboration* Mar' 24
- Built a **PyTorch** based computer vision system to extract **7** structured livestock attributes (animal type, breed, height, width, weight, milk yield, tag ID) from a single image, achieving **~80%** classification accuracy.
 - Automated livestock profiling to reduce manual identification and convert visual input into structured, machine-readable records.
 - Implemented an end-to-end deep learning pipeline including preprocessing, **CNN** training, evaluation, using a trained model.

TRAINING

- ZNRG** | *Ownership, Teamwork, Accountability, Customer focused initiative* Sept '24 – Dec' 24
[Solar Analyst Intern](#)
- Acquired clients via CRM – made **150+** calls daily to pitch solar solutions and closed **3** deals through strategic follow-ups.

CERTIFICATES

- Introduction to Cloud Computing | [IBM](#) Jan' 24
- Introduction to Web Development with HTML, CSS, JavaScript | [IBM](#) Feb' 24
- The Bits and Bytes of Computer Networking | [Google](#) Sept' 24
- Introduction to Machine Learning | [IITKGP](#) Sept' 24
- Introduction to Machine Learning | [IITM](#) Nov' 25
- Social Networks | [IITM](#) Nov' 25

EXTRA CO-CURRICULARS

- SPARK** | [LinkedIn](#) | [Website](#) | *Leadership, Team Collaboration, JavaScript, Node.js, MongoDB* Mar' 24
Founder
- Built and led a **60+** member student platform enabling peers to develop skills through hands-on projects, workshops, and leadership initiatives.
 - Co-developed official website using **JavaScript, Node.js, and MongoDB**.
- SUKRIT** | [Website](#) | *Cross-functional communication, Product operations, User experience* Feb' 24 - Oct' 24
Director of Technology and Public Relations
- Coordinated **cross-domain teams** (tech, PR, core committee) to analyze processes and improve organizational efficiency.
 - Led a **5-member** cross-functional team to shape and test the **reader portal**, ensuring reliability and user experience.

EDUCATION

- Lovely Professional University** Phagwara, Punjab
Bachelor of Technology Aug' 23 – Present
Computer Science and Engineering; CGPA: 8.69
- Institut Supérieur D'électronique De Paris** Paris, France
Bachelor of Technology Jan' 25 – June' 25
Computer Science and Engineering – Exchange Program
- Swami Sant Dass Public School** Phagwara, Punjab
Intermediate; Percentage: 85 Apr' 22 – Mar' 23