

Aryan Agrawal

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SKILLS

Languages:	Python, C++
Frameworks:	TensorFlow, PyTorch, Numpy, Pandas, OpenCV, scikit-learn, Matplotlib, Tkinter
Tools/Platforms:	Git, GitHub, Jupyter Notebook, Anaconda, Google Colab, Docker
Soft Skills:	Problem-Solving, Attention to detail, Adaptability, Creativity, Innovation

PROJECTS

Deepfake Detection <i>OpenCV, PyTorch, TensorFlow, Streamlit, Transfer Learning</i> GitHub	Active' 25
<ul style="list-style-type: none">Collected and structured a paired deepfake dataset (5 fake + 10 real), producing ~1400 labeled face samples through automated frame extraction and MTCNN-based detection.Engineered a preprocessing pipeline with standardized cropping (224x224), RGB conversion, and manifest creation for consistent, model-ready inputs.Benchmarked transfer-learning architectures (MobileNetV2, ResNet50, EfficientNet-B0, Xception) to assess accuracy-latency trade-offs for deepfake classification.Evaluated models using ROC-AUC, confusion matrices, and heatmap visualizations to interpret performance and decision patterns.	
Visual Sudoku Solver <i>Python, OpenCV, Tkinter, KNN, Joblib</i> GitHub	Apr' 25
<ul style="list-style-type: none">Processed Sudoku images using contour detection, adaptive thresholding, and perspective correction to isolate the grid and extract 81 cells reliably.Recognized digits through KNN classifier trained on MNIST, with confidence filtering, ROI validation, and preprocessing logic to reduce misclassification; achieved 96% training and 87% test accuracy.Executed puzzle completion with a backtracking-based solver featuring visual animations and state-based color cues for solving, placement, and backtracking.Built a full Tkinter GUI supporting image upload, digit editing, cell validation, and interactive rendering of the solved puzzle.	
Spam/Ham Classification Model <i>Scikit-learn, TF-IDF, Logistic Regression</i> GitHub	Jun' 24
<ul style="list-style-type: none">Cleaned and structured a 5,572-row email dataset by removing null columns, renaming fields, and standardizing class labels for binary classification.Converted messages into vectorized features using TF-IDF, enabling effective representation of text patterns without manual NLP.Trained and evaluated a Logistic Regression classifier, achieving 96.23% accuracy on the test set with stable performance across splits.Built an end-to-end pipeline for training, testing, and inference, including model serialization using pickle for portable deployment.	

CERTIFICATES

Supervised Machine Learning: Regression and Classification <i>Coursera</i>	Nov' 25
CS50 Programming with Python <i>Harvard University</i>	Feb' 24
Machine Learning Engineer Google Cloud <i>Coursera</i>	Nov' 23

ACHIEVEMENTS

- Secured **6th place out of 300+ teams** in Binary Blitz hackathon
- Ranked in the **top 30%** in a Kaggle machine learning competition.
- Won **1st place** at a local tech exhibition for building a **laser-based microphone system**
- Won **1st place** in a college-level Tech Quiz Competition
- Represented **Gujarat and Maharashtra** in **state-level swimming and badminton**
- Completed multiple **marathons**, demonstrating endurance and long-term discipline

EDUCATION

Lovely Professional University Bachelor of Technology Computer Science and Engineering	Phagwara, Punjab Aug' 23 – Present
Orchids The International School Intermediate	Mumbai, Maharashtra Mar' 21 – May' 23
Delhi Public School Matriculation	Vadodara, Gujarat Mar' 20 – May' 21