Yash Agarwal

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EDUCATION

Graphic Era Hill University   Uttarakhand, India
B.Tech, CSE (Honors in ML & AI)   *Aug 2023 – Jul 2027*

PROJECTS

Kidney Stone Detection Model   Source Code
- Built a binary image classifier using TensorFlow and CNNs for ultrasound scans.
- Performed preprocessing (thresholding, contouring) using OpenCV to enhance inputs.
- Trained with image augmentation (rotation, shift, flip) for robust accuracy.
- Deployed inference endpoint with Flask + Docker; tested with AWS Model Monitor.
- Achieved 92% accuracy with tuned learning rates and dropout layers.

Celebrity Comment Real vs Fake Classifier   Source Code
- Scraped thousands of celebrity post comments and manually labeled ground truth.
- Built and compared Naive Bayes, SVM, and BiLSTM models using TensorFlow.
- Implemented text preprocessing with spaCy and vectorization with TF-IDF.
- Achieved 89% F1 score on BiLSTM model; deployed as Flask REST API.
- Tested inference latency and batch accuracy in production container.

TECHNICAL SKILLS

ML Frameworks: TensorFlow, scikit-learn, Keras
NLP: spaCy, NLTK, Hugging Face Transformers
Data Tools: pandas, NumPy, Matplotlib, OpenCV
Deployment: Flask, Docker, AWS SageMaker, Render

CERTIFICATIONS

AWS Certified Machine Learning – Specialty

AWS ML Engineer Associate Learning Path (includes labs)

AWS Cloud Quest: Machine Learning

AWS Cloud Practitioner Essentials

Machine Learning Essentials for Business and Technical Decision Makers

AWS ML Engineer 4.3: Secure AWS ML Resources