Saumya Thakor — AI/ML Engineer

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Objective

A highly motivated AI/ML Engineer with expertise in machine learning, deep learning, NLP, and computer vision. Skilled in developing and optimizing AI models, deploying scalable solutions, and integrating AI into real-world applications. Proficient in Python, SQL, and Docker, with experience in data preprocessing, feature engineering, and model evaluation. Passionate about applying AI to solve complex problems efficiently while ensuring high accuracy and robustness.

Projects

Deep Learning-Based Cancer Image Classification:
- Optimized CNNs (VGG16, InceptionV3, InceptionResNet, DenseNet) for cancer detection.
- Used data augmentation and ensemble methods to enhance accuracy.

Improving Spectral Clustering Scalability through Intelligent Sampling Methods:
- Integrated cluster-based and density-based sampling for efficient clustering.
- Developed a scalable model for large datasets with high accuracy.

Cloud-Based Fake News Detection:
- Developed an ML-based fake news classifier with a Flask web app.
- Deployed on Render for real-time, scalable detection.

Domain-Specific Text Summarization Using LangChain and OpenAI:
- Designed a summarization pipeline leveraging GPT models with fine-tuned parameters for domain-specific accuracy.
- Applied NLP techniques like tokenization, TF-IDF, and stop-word removal for effective text preprocessing.

Automatic License Plate Recognition (ANPR) with OpenCV:
- Built an image processing pipeline using OpenCV to detect and extract vehicle number plates.

Skills

Programming Languages: Python, C++, SQL

Tools: Docker, Git, Tableau, Power BI, PostgreSQL, MySQL

Development Areas: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision

Soft Skills: Problem-solving, Teamwork, Adaptability, Quick Learner, Time Management

Publications

Research Paper: Improving Spectral Clustering Scalability through Intelligent Sampling Methods

Accepted at: EAI International Conference on Body Area Networks (EAI BodyNets)

Status: *Accepted, to be published*

Education

Pandit Deendayal Energy University — **Gandhinagar, Gujarat**

Bachelor of Technology in Computer Science Engineering, CPI: 9.39 — 2020–2024

ABV Indian Institute of Information Technology and Management Gwalior — **Gwalior, MP**

Master of Technology in Information Technology, CPI: 8.37 — 2024–2026