Swastik Aryan

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Summary

Data Scientist and ML Engineer with expertise in developing scalable AI solutions, optimizing deep learning models, and deploying ML pipelines. Experience working with large datasets (2M+ records), improving model accuracy by up to 15%, and achieving 40% faster inference. Passionate about AI applications in cybersecurity, NLP, and computer vision.

Education

– **IIIT SRI CITY** Andhra Pradesh, India
B.Tech in AI & Data Science *Aug 2023 – May 2027*

Experience

Tech Team Member, Entrepreneurship Cell IIIT Sri City, India
Aug. 2023 – Present

– Collaborated in a team of 5 to organize technical workshops and hackathons, benefiting over 200 students and startups.

– Developed and maintained the Entrepreneurship Cell website, increasing event visibility and user engagement by 30%.

– Led the technical aspect of a pitch competition, guiding teams through technical product prototypes and innovations.

– Utilized tools like GitHub, JIRA, and Slack for seamless project management and communication.

Projects

Real-Time Stress Detection via Facial Analysis GitHub | *Python, TensorFlow, OpenCV, VGG-16, Streamlit* March 2025

– Developed a deep learning model for real-time stress detection using VGG-16, achieving 89% accuracy on the FER-13 dataset.

– Processed and analyzed 35,000+ facial images, applying median and bilateral filtering to enhance feature extraction.

– Deployed a real-time webcam-based application capable of processing stress detection results in under 2 seconds.

Small Language Model (SLM) for Question Answering GitHub | Streamlit | *Python, PyTorch, Hugging Face* Feb 2025

– Developed a lightweight language model achieving 92% accuracy, processing 10,000+ queries monthly.

– Trained the model on 1M+ text samples, improving contextual relevance by 35%.

– Implemented attention mechanisms, reducing incorrect responses by 20%.

Intrusion Detection System (IDS) Analysis GitHub | Streamlit | *Python, Scikit-learn, Pandas* Jan 2025

– Analyzed 2M+ network traffic records, achieving a 98% detection accuracy.

– Developed an ANN-based classifier, reducing false positives by 15%.

– Built a visualization dashboard that reduced anomaly identification time by 30%.

Technical Skills

Languages: Python, R, SQL, C++, C, Java
Libraries: Pandas, NumPy, Seaborn, Scikit-learn, Matplotlib, TensorFlow, Keras, PyTorch, XGBoost
Tools: Tableau, Jupyter Notebooks, Google Colab, MLflow, DVC, GitHub, Streamlit
Techniques: Data Cleaning, EDA, Feature Engineering, Model Evaluation, Hyperparameter Tuning, Deep Learning, CNN, NLP, Generative AI

Achievements

– Finalist in HackData 2025, selected among 1,400 participants for building an AI-driven data analytics solution.