AWANTIKA SRIVASTAVA

AI/ML Engineer | Data Scientist | NLP

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PROFILE SUMMARY

AI/ML ENgineer with **2+ years of experience** in applying **machine learning, statistical analysis, and NLP techniques** to solve real-world business problems. Strong background in **Python-based data science workflows**, supervised and unsupervised learning algorithms, and end-to-end ML lifecycle. Experienced in working with **databases, cloud platforms, and analytics pipelines**, with the ability to learn and adapt to new AI/ML tools quickly.

CORE TECHNICAL SKILLS

- **Programming Languages & Tools:** Python, Numpy, Pandas, Matplotlib, Scikitlearn, C++, SQL.
- **Statistics & Mathematics:** EDA, Data Preprocessing,, Statistical Modeling, Hypothesis Testing, Probability, Linear Optimization, Trend Analysis.
- **Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Random Forest, Decision Trees, SVM, KNN, K-Means, XGBoost, Hyperparameter Tuning, Feature Engineering.
- **Deep Learning:** Neural Networks, CNN, RNN, LSTM, Transformers (BERT), Transfer Learning, Model Fine-tuning, RAG, LLMs
- **Deep Learning Frameworks:** PyTorch, TensorFlow, Hugging Face, LangChain, FAISS.
- **Computer Vision**: Image Classification & Preprocessing, Object detection (YOLO, SSD, MobileNet, ResNet), Video Analytics, OpenCV
- **NLP**: Text preprocessing, Tokenization, Chunkins, Transformers, Sentiment Analysis, Semantic Search, Transformer-based models, NLTK, SciPy, Spacy.
- **MLOps & Deployment:** Flask, REST APIs, Git, Docker (basic), ML Pipelines
- **Cloud & Platforms:** AWS (EC2, S3 – basic), Linux
- **Collaboration & Delivery:** Client-facing PoCs, Cross-functional Collaboration, Documentation, Agile Delivery

EXPERIENCE

AI/ML Engineer | PPS International Pvt. Ltd.   **January 2024-Present**

- Designed and deployed **ML/DL models for decision augmentation and process automation**, improving solution efficiency and reliability.
- Built **end-to-end ML pipelines** covering data ingestion, preprocessing, feature engineering, model training, evaluation, and deployment.
- Performed **exploratory data analysis (EDA)** and feature selection to improve model performance and stability.
- Supported **client-facing PoCs and automation use cases**, contributing to **solution-led delivery, GTM readiness, and business value creation**.
- Collaborated with **ML engineers, data engineers, and platform teams** to evaluate deployment strategies and production constraints.
- Implemented **REST APIs and model serving workflows** to enable real-time and batch inference.
- Ensured **production readiness** through modular, reusable code, Git-based version control, and clear technical documentation.
- Monitored model outputs and supported **iterative improvements based on stakeholder feedback and delivery requirements**.

PROJECTS

Railway Driver Assistance System (RDAS) | Enterprise ML Project

- Designed and deployed a **real-time ML systems** for unsafe behavior detection using **CNN-based object detection** models.
- Implemented **end-to-end ML pipelines** from data ingestion to production inference.
- **Deployed** optimized models using **TensorFlow Lite** for continuous, **low-latency inference.**
- Developed a **Flask-based** web interface to display detections and recorded video clips in **real time**.
- **Deployed** the complete solution on **edge devices**, enabling reliable on-device inference and **real-time event recordings**.

Amazon Stock Price prediction | Applied ML Project

- **Built batch-oriented ML workflows** for time-series forecasting using **LSTM** models.
- Implemented data **preprocessing**, feature engineering, and model **evaluation pipelines** on **large** historical datasets.
- Designed **sliding-window** based **sequence generation** and trained LSTM model 5-year stock price data.
- Evaluated model performance using appropriate regression **metrics** and **trend-based analysis** for short-term forecasting.

YouTube Comments Sentiment Analyzer | link -https://youtube-ai-analyzer-ndzqo6r2mepjrtsdjmwaxl.streamlit.app/

- Deployed transformer-based **NLP models** as **production-ready** services with **REST APIs**.
- **Fine-tuned** and served a **DistilBERT**-based **sentiment** classification model for large-scale text inference.
- **Built** and deployed an interactive **streamlit web application** to perform real-time **sentiment analysis** on YouTube comments.
- **Processed** high-volume text **data** with sub-second inference **latency** for real-time sentiment analysis.

CERTIFICATION

- IBM Data Science & AI Certification
- AWS Generative AI with Large Language Models
- OpenCV Computer Vision Certification

EDUCATION

IMS Engineering College, Ghaziabad   **September - 2020**
Bachelor of Technology