

AWANTIKA SRIVASTAVA

Associate Machine Learning Engineer | AI & Machine Learning Solution

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PROFILE SUMMARY

Associate Machine Learning Engineer with **2 years of experience** in developing, deploying, and operationalizing **machine learning and AI solutions**. Strong foundation in **machine learning, deep learning, and statistical analysis**, with hands-on experience across the **end-to-end ML lifecycle**—from problem understanding and data preparation to model development, evaluation, and deployment. Proven ability to support **proof-of-concepts (PoCs)**, collaborate with cross-functional teams, and deliver scalable ML solutions aligned with business objectives.

CORE TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, SQL.
- **Statistics & Mathematics:** Statistical Modeling, Descriptive Statistics, Hypothesis Testing, Probability, Sampling, Scenario Analysis.
- **Machine Learning:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Random Forest, Decision Trees, SVM, KNN, K-Means, XGBoost, Hyperparameter Tuning.
- **Deep Learning & AI:** Neural Networks, CNN, RNN, LSTM, Transformers (BERT), Transfer Learning, Model Fine-tuning, RAG, LLMs.
- **Deep Learning Frameworks:** TensorFlow, keras, Pytorch, TensorFlow Lite.
- **NLP:** Text preprocessing, Tokenization, Sentiment Analysis, Topic Modeling (LSA, LDA), Transformer-based models.
- **Data Handling & Databases:** Data Retrieval & Analysis, SQL Queries, MySQL, SQL Server, MongoDB.
- **Cloud & Data Science Platforms:** AWS, Sagemaker (Exposure), GCP (Exposure), Databricks (Exposure).
- **Tools & SDLC:** Git, GitHub, JIRA, Confluence, Structured Software Development.

EXPERIENCE

Machine Learning Engineer | PPS International Pvt. Ltd.

January 2024-Present

- Supported solution development and **proof-of-concepts (PoCs)** by building machine learning and deep learning models aligned with business use cases.
- Applied **machine learning algorithms and statistical techniques** for predictive modeling, pattern recognition, and decision support.
- Implemented **end-to-end ML pipelines**, including data collection, preprocessing, feature engineering, model training, and evaluation.
- Collaborated with ML engineers, data engineers, and IT teams to **evaluate deployment options** and integrate ML solutions into production systems.
- Deployed and monitored ML models, ensuring reliability, **performance**, and scalability.
- Followed **SDLC best practices**, including version control, documentation, testing, and defect resolution.
- Contributed to **capability building** by sharing knowledge, supporting onboarding, and collaborating across teams.

PROJECTS

Railway Driver Assistance System (RDAS) | Enterprise ML Project

- Designed and deployed a real-time computer vision-based ML system to detect unsafe driver behaviors from continuous video streams.
- Trained and optimized CNN-based object detection models (SSD MobileNet architecture) to perform real-time inference on video data.
- Implemented end-to-end ML pipelines covering data ingestion, preprocessing, model training, evaluation, and production inference.
- Achieved 20–25 FPS real-time processing with <150 ms inference latency by optimizing models for deployment.
- Built and integrated a Flask-based web interface to visualize detections and automatically recorded 30-second event clips, reducing manual review effort.

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-ndzqo6r2mepjrtsdjmwxal.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 (Electrical and electronics engineering)