# Abhijeet Dalvi

**Machine Learning Engineer**

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## Summary

Machine Learning Engineer with 3 years of experience in designing, developing, and deploying machine learning models at Mind Spark Technology. Strong analytical skills, expertise in end-to-end ML pipelines, and a deep understanding of MLOps, CI/CD, and cloud deployment. I am enthusiastic about delivering scalable AI solutions and optimizing model performance for business impact.

## Skills

**Machine Learning**
EDA, Feature Engineering, Regression, Classification, Bagging, Boosting, PCA, Clustering, Flask, Drift detection.

**Deep Learning & Natural Language Processing**
ANN, CNN, RNN, Transformers, Tokenization, Embeddings, Sentiment Analysis.

**Libraries**
NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost.

**Tech Stack**
Python, SQL, CI/CD, ETL, AWS, GCP, MLFlow, Airflow, Docker, PowerBI, Git.

## Experience

**Mind Spark Technology** — **Pune, India**
Associate Machine Learning Engineer — Nov 2021 - Present

**Exploratory Data Analysis and Feature Engineering**

- Performed EDA to uncover key trends, correlations, and anomalies using statistical analysis and visualizations.
- Engineered and selected impactful features to improve model accuracy and performance reducing overfitting.
- Applied dimensionality reduction techniques like PCA to retain essential information while optimizing efficiency.
- Created automated data preprocessing pipelines to streamline feature engineering and ensure consistency across experiments.
- Collaborated with data scientists and engineers to clean, preprocess, and structure datasets for optimal model performance.
- Documented preprocessing steps, feature selection, and transformations for reproducibility and efficient knowledge transfer.

**Machine Learning Prediction Model and Deep Learning**

- Built an ML prediction model using MLflow, Airflow, and SageMaker, integrating data processing, training, and deployment.
- Designed an end-to-end ML pipeline with real-time API integration for efficient model serving.
- Leveraged containerized workflows and CI/CD pipelines to ensure seamless deployment and version control across cloud environments.
- Built and fine-tuned domain-specific sentiment analysis models using Hugging Face transformers, optimizing performance through transfer learning and data augmentation.
- Improved model performance with feature selection, hyperparameter tuning, and data augmentation.
- Collaborated across teams to deploy production-ready models, ensuring low-latency inference and high availability
- Conducted data cleaning, tokenization, and augmentation to improve model robustness.
- Evaluated and monitored model performance using precision, recall, F1-score, and drift detection for continuous improvement

## Education

***Bachelor of Engineering*** Savitribai Phule Pune University