Gaurav Pawar

Data Science and Machine Learning

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EDUCATION

B.Tech(Computer Science & Engineering) (cgpa-8.28) 07/2020 – 06/2024 | Pune,MH
Nutan College of Engineering & Research

PROFESSIONAL EXPERIENCE

Machine Learning Engineer Intern 03/2023 – 04/2023 | Baner,MH
Muks Robotics – The AI Robotics Company

- Designed a speech-to-text converter for AI Muks OS, which resulted in a **24%** improvement in conversion time and a **20%** increase in accuracy.
- Led a comprehensive study on AI/ML applications in healthcare and finance, successfully identifying cost-saving strategies and operational improvements. Demonstrated strong teamwork and communication skills while effectively working well with the team and sharing insights with the CEO.

AI/ML Intern 03/2022 – 06/2022 | Bavdhan,MH
Defence Research And Development Organisation

- Successfully deployed **SVM**-based machine learning models to enhance the accuracy of an Intrusion Detection System, resulting in a **25%** reduction in false positives
- Improved missile detection accuracy by **18%** using deep learning models (**CNN)** over traditional methodologies.
- Developed a secure chat application for DRDO using XAMPP and web technologies, enabling secure communication among DRDO personnel

SKILLS

NLP
Named Entity Recognition, Word Embeddings, Tokenization, Stemming and Lemmatization, Bag of words, Natural Language Generation, Sentiment Analysis, Fine Tuning Transformers for NLP Tasks

Supervised Techniques
Random Forest, GBM, SVM, XGBoost, Decision Trees, Naive Bayes, Logistic Regression, KNN, Bagging and Boosting Techniques

Unsupervised Techniques
Clustering using KMeans, Hierarchical, Density-Based, Expectation Maximization, Gradient Descent, PCA.

Languages & Frameworks/Tools
Python, SQL, Streamlit, Docker, PowerBI, Scikit-learn, MLlib, TensorFlow, Hugging Face.

PROJECTS

Toxic BERT

- Fine-tuned a **BERT** model for toxic comment classification, achieving **93.5%** accuracy.
- Integrated the model with Streamlit and containerized the application using Docker.
- Deployed the container on AWS Fargate

Customer Churn Prediction

- Leveraged Machine Learning (**XGBoost**) to predict customer churn for Telecom Company (**80.86%** accuracy).
- Reduced customer attrition by identifying churn risks with hyperparameter tuning (**Grid- SearchCV**).
- Empowered proactive retention strategies through actionable churn insights.

Porter Delivery Time Estimation

- Developed a machine learning model using a neural network to predict delivery times for Porter, achieving a Mean Absolute Error (**MAE**) of **10.68** minutes, a Mean Squared Error (**MSE)** of **201.91,** and a Mean Absolute Percentage Error (**MAPE**) of **24%**