

Shraiyy Khaddar

Machine Learning Engineer

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🔗 <https://shraiyy.github.io/shraiyykhaddar/>

Education

09/2021 – present Gwalior, India	Bachelor of Technology <i>Madhav Institute of Technology and Science</i> GPA: 7.52
2020 – 2021 India	Senior Secondary <i>Navankur Higher Secondary (MPBSE)</i> Percent: 76.8
2018 – 2019 India	Secondary <i>Samarpan Public Senior Secondary (CBSE)</i> Percent: 84.5

Professional Experience

12/2024 – present Gwalior, India	Data Science Intern <i>Saanvi Innovative Solutions</i> <ul style="list-style-type: none">• Researched 50+ AI/ML papers and developed 15+ models (CNNs, RNNs, LLMs) with up to 99% accuracy across various tasks.• Preprocessed 20M+ records and 10K+ images, applying TF-IDF, lemmatization, and SMOTE to enhance data quality and model balance.• Built a multiclass sentiment analysis system on 2M+ product reviews using Random Forest, Naive Bayes, DistilBERT, and RoBERTa, driving insights for demand forecasting and product strategy.• Visualized sentiment trends and model metrics using Matplotlib, Seaborn, and WordClouds; collaborated on integration into decision-making pipelines.
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Projects

05/2024	Fraud Transaction Detection <ul style="list-style-type: none">• Developed an AI-based fraud detection system on 7M+ transactions with 11 attributes.• Technical Skills Conducted EDA and applied SMOTE for class balancing.• Trained models (XGBoost, Random Forest, Logistic Regression), achieving 99% accuracy.• Implemented data visualization techniques to analyze fraud patterns.• Deployed the user ready interface on Render, enabling real-time fraud detection.
02/2024 – 04/2024	Deepfake Detection Using CNNs <ul style="list-style-type: none">• Fine-tuned a deepfake detection model using MesoNet and other CNN models with 3+ layers.• Preprocessed 12,000+ images, applying image augmentation & normalization.• Optimized and trained CNN model using binary cross-entropy, achieving 90%+ accuracy.• Evaluated results using confusion matrix, classification report, and F1-score.
09/2023 – 12/2023	Accident Severity Prediction <ul style="list-style-type: none">• Built an ML model using 7M+ records & 46 features to predict accident severity.

- Performed data preprocessing, feature extraction, and **NLP**-based text processing (TF-IDF vectorization) on 3M+ instances.
- Applied **SMOTE** to address the class imbalance increasing 2M+ instances.
- Implemented Random Forest, XGBoost, and other ML models to achieve 90%+ accuracy, by evaluating precision-recall, and feature importance analysis.
- **Tech Stack:** Python (Pandas, NumPy, Scikit-learn, Imbalanced-learn, NLTK), ML Algorithms, Feature Engineering.

Technical Skills

Languages

Python, C++, SQL, MySQL, HTML
Data Structures and Algorithms

Machine Learning

XGBoost, Neural Networks (CNN), LSTMs, NLP (LLM)

Data Science

- Feature Engineering, EDA, Data Cleaning, TF-IDF

Tools and libraries

Libraries: Pandas, Numpy, Matplotlib, Tenorflow

Tools: Git, Jupyter, Google Colab, VS Code

Certificates

Data Analytics with Python (NPTEL) [↗](#)

Score: 73%

Big Data Computing (NPTEL) [↗](#)

Score: 75%

Responsible and Safe AI Systems (NPTEL) [↗](#)

Score: 73%

Accomplishments

- **Completed Summer Internship in MySQL & RDBMS** (*Secured 'A' Grade*).
- **Certificate of Participation** in 39th M.P. *Young Scientist Congress Innovation Challenge*.
- **Active participant** in college tech events & AI/ML workshops.