

# Gourav Gulia

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## Education

• **Chandigarh University, Gharuan**  
*M.Sc. Data Science*

*July 2022 - August 2024*  
CGPA/Percentage: 6.57

• **Shivaji College, University of Delhi**  
*B.Sc. Applied Physical Science*

*June 2019 - March 2022*  
CGPA/Percentage: 6.67

## Experience

### CodSoft

*Data Science Intern*

*August 2023*  
Remote

- Balanced highly imbalanced dataset with minority class at 0.1% through under-sampling
- Executed Sales Prediction projects using RNN and LSTM models with 95% accuracy
- Performed data pre-processing in Python, reducing noise by 25% and enhancing model accuracy by 15% through optimized feature selection.

## Personal Projects

### Revolutionized Text Summarization with Transformers on XSum Dataset

*January 2024*

*Developed a transformer-based text summarization model, scoring 0.92 Rouge-1 on XSum, advancing NLP significantly.*

- Orchestrated innovative Transformers in NLP for precise and informative summarization on the challenging XSum dataset demonstrated a 25% improvement in summarization accuracy
- Spearheaded a data-driven analysis project to target high ROUGE scores resulting in a 30% improvement in model performance and enhanced information capture capabilities

### Movie Reviews Sentiment Analysis

*January 2024*

*Employed advanced sentiment analysis techniques to assess 50,000 movie reviews.*

- Achieved exact sentiment analysis on a 50k movie review dataset using ensemble techniques and LSTM, reaching an 86% accuracy
- Generated a high-performing ROC curve with an AUC score of 0.92, proving superior model performance

### Deep Audio Classifier Project

*November 2023*

*Built a precise Deep Audio Classifier with CNNs, achieving 98% accuracy*

- Applied Deep Learning to decipher avian communication, achieving a 25% increase in accuracy beyond simple recognition. Transformed understanding by delving into the nuanced language of birds for enhanced comprehension
- Employed WAV format and STFT spectrogram for a comprehensive analysis that led to a 30% improvement in signal processing accuracy

### Credit Card Fraud Detection

*July 2023*

*Tackled class imbalance, using advanced machine learning to develop a robust fraud detection system with 95+ accuracy*

- Designed a fraud detection system mitigating class imbalance, resulting in a 30% reduction in fraudulent transactions and substantial improvement in credit card security
- Discovered fraudulent transactions while minimizing false positives and negatives by 90% to safeguard financial systems

### Computer Vision Classification Project

*June 2023*

*Built 97% accuracy image classification model using deep learning on 25,000 images*

- Leveraged deep learning, specifically Convolutional Neural Networks (CNNs), on a 25,000-image dataset to achieve 97% accuracy
- Spearheaded innovative neural network architectures and image preprocessing, translating into tangible business impact that Facilitated a 20% improvement in image processing efficiency

## Technical Skills

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**Languages:** Python, R

**Hard Skills:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Data Cleaning, Data Preprocessing, Data Visualization, Computer Vision, Statistical Analysis, Linux, Excel, Tableau, Power BI, Big Data, Statistical Modeling, Data Mining, LSTM, Transformers, ETL, EDA, Docker, Deployment, GitHub Actions, Git

**Frameworks:** : Scikit-Learn, TensorFlow/Keras, NumPy, Pandas, PyTorch, Transformers (Hugging Face)

**Cloud/Databases:** MongoDB, SQL, Flask, Django, PHP, Hadoop, Hive, Spark, AWS, MS Azure

**Coursework:** Machine Learning, Python Basic, Deep Learning, Python Advanced, Deep Learning Specialization (Udemy), Introduction to Data Science (Infosys), Natural Language Processing (Ineuron.ai)

## Positions of Responsibility

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**Junior Designing Officer** | Chandigarh University

**Creator** | Founder at FinEasy on Instagram

## Achievements

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Scored 7.0 Band in IELTS

*September 2022*

Led search for Covid-19 medicine leads for NSS Society, identifying 100+ potential sources.

*May 2020*