

## Aman Yadav

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## SKILLS

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**LANGUAGES:** Python, Java.

**FRAMEWORKS:** TensorFlow, Scikit-Learn, NLTK, Pandas, NumPy, Seaborn, Matplotlib.

**TOOLS/PLATFORMS:** MySQL, Kaggle, GitHub, SHAP, VertexAI, CUDA, Docker

**SOFT SKILLS:** Problem-solving, Analytical thinking, Teamwork, Leadership.

## SUMMER TRAINING

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### DSA Self-Paced Course by Geeks for Geeks

June 2024 – August 2024

- Mastered linear and non-linear data structures and algorithms for optimized data manipulation and extraction
- Developed expertise in dynamic programming and greedy algorithms.
- Applied backtracking techniques to solve the N-Queens problem.

## PROJECTS

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### Tweets Sentiment Analysis

July 2025 – Aug 2025

- Developed a deep neural network for sentiment analysis using tensorflow **sequential model**.
- Pre-processed tweet to get token id from model vocabulary to create word **embeddings**.
- Used **CUDA** for accelerated model training and **Docker** to create WSL container.
- Model scored **F1 score of 0.835** with **cross entropy loss of 0.4605**, demonstrating model robustness.

**Tech** – Tensorflow, Docker, CUDA, NLTK, Scikit-Learn, Pandas, NumPy, Matplotlib.

### Spaceship Titanic - Kaggle Competition

June 2025 – July 2025

- Used **XGBoost Classification** model to classify whether passenger transported or not.
- Performed feature engineering and **exploratory data analysis** along with model explainability.
- Model achieved an **accuracy score of 0.794** in the official **Kaggle** evaluation.

**Tech** – Scikit-learn, Pandas, Matplotlib, XGBoost, Seaborn.

### Plant Counting Project

March 2025 – April 2025

- Built a CNN model using transfer learning to predict plant count from **TFRecords** of plant images.
- Designed an efficient data pipeline and implemented **callbacks** to enhance model performance
- Achieved an **R2 score of 0.71** and **RMSE of 8.26** on test data.

**Tech** – TensorFlow, NumPy, Pandas, Matplotlib, Convolutional Neural Networks, MobileNetV2.

## CERTIFICATES

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|---|----------------|
| • Generative AI Language Modeling with Transformers – IBM           | September 2025 |
| • Gen AI Foundational Models for NLP & Language Understanding – IBM | August 2025    |
| • Generative AI and LLMs: Architecture and Data Preparation – IBM   | August 2025    |
| • Dynamic Programming and Greedy Algorithms – Coursera              | March 2024     |

## ACHIEVEMENTS

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### Leetcode

Solved 100+ problems, achieving 50 days problem solving badge.

### Kaggle Competition

Participated in Petal-To-Metal, Spaceship Titanic and Home Prices Prediction competitions.

### Hacker Rank

Achieved Gold Level in Python and Silver Level in C++.

### NCC B Certificate

Awarded 'A' grade in National Cadet Corps B Certificate examination.

## EDUCATION

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### Lovely Professional University

Jalandhar, Punjab

Pursuing

- Bachelor of Technology in Computer Science and Engineering; CGPA: 7.03

### Army Public School

Jalandhar Cantt, Punjab

2021 – 2022

- Intermediate

### Army Public School

Jalandhar Cantt, Punjab

2019– 2020

- Matriculation