

# Haroon Naseer

- [Contact](#) | [LinkedIn](#) | [Github](#) | [Kaggle](#)

## Experience

### Machine Learning Researcher

*IUST Awantipora*

*May '24 - Present*

- **Developing** a machine learning model for the RSNA 2024 Lumbar Spine Degenerative Classification, establishing a baseline predictive model as a foundation for future enhancements.

### Machine Learning Intern

*Internz Valley*

*February '24 - April '24*

- **Implemented** projects involving machine learning model development, data preprocessing, and data analysis.

#### 1. *Heart Disease Classification*

- Enhanced Model Performance:
- Accuracy improved from 80% to 85%
- Precision increased from 0.78 to 0.85 (No Disease) and 0.82 to 0.86 (Disease)
- Recall boosted from 0.78 to 0.81 (No Disease) and 0.82 to 0.88 (Disease)

#### 2. *Titanic data Analysis*

- Found correlation between ticket class and survival: 63% of 1st class, 48% of 2nd class, and 25% of 3rd class passengers survived
- Gender and survival rates: 73% of females and 20% of males survived
- Age group analysis: Higher survival for ages 0-10, lowest for ages 60-80
- Observed that smaller family sizes (below 4) had higher survival rates

## Skills

- **Languages:** Python, C++
- **Libraries:** Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch
- **Tools:** Jupyter Notebooks, Git, CLI

## Projects

### 1. **Animal Classification**

- **Implemented** transfer learning using MobileNet v2 to classify images based on animal species, achieving 99.8% accuracy.
- **Enhancing** the project by applying advanced data processing techniques and balancing methods to improve model performance and reduce overfitting.

## **Education**

### **B.Tech in Computer Science and Engineering**

*IUST Awantipora*

*Autumn 2021 - 2025*

- Currently pursuing a degree in Computer Science and Engineering.

## **Courses**

- Google Data Analytics
- Machine Learning Specialization
- Deep Learning Specialization