

# Haroon Naseer

## Machine Learning Enthusiast | Skilled in Data Analysis, Model Optimization | Interested in Ethical and Explainable AI | Seeking Internship/Job

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

### Experience

#### Machine Learning Intern

InternzValley

February '24 - April '24

Training Projects.

1. *Heart Disease Classifciation*
  - Enhanced model accuracy 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

### Skills

- **Languages:** Python, C++, java
- **Libraries:** Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch
- **Tools:** Jupyter Notebooks, Git, CLI
- **Interest** Explainable AI, Ethical AI, AGI Research

### Projects

1. [Animal Classification](#)
  - **Achieved 99.8% accuracy** using transfer learning using MobileNet v2 to classify images based on animal species.
  - **Tools Used** Python, Tensorflow, PyQt5, and Flutter with Tflite for Android UI
2. [Image Classification Trainer UI](#)
  - **Developed Image Classification App** Built a PySide app for model selection, training, inference, and Visualization using Saliency Maps and Model Graph.
  - **Streamlined Model Workflows** by allowing for simple and quick training workflow for image classification --
  - **Tools Used** Pyside6, Python, Pytorch, Torchviz, Captum

### Education

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

IUST Awantipora

Autumn 2021 - 2025

### Courses

- [Google Data Analytics](#)
- [Machine Learning Specialization](#)
- [Deep Learning Specialization](#)
- [Explainable AI Specialization](#)