Haroon Naseer

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

- haroon.naseer@iust.ac.in | 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