MUHAMMAD ALI HASNAIN

Rising Sophomore at NED University

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○ MAliHasnain

EDUCATION

Computer Systems Engineering Undergraduate Student
NED University Of Engineering And Technology

📅 October 2021 – October 2025   ● Karachi, Pakistan

A list of all courses taken is available on LinkedIn

Intermediate - Pre Engineering
Adamjee Govt. Science College

📅 Sep 2019 – Sep 2021   ● Karachi, Pakistan

PROJECTS

Potato Disease Classification

- Developed an end-to-end project utilizing CNN for accurate potato leaf classification.
- Created a prototype web app with FastAPI backend and React.js frontend.
- Leveraged machine learning to identify leaf issues in the agricultural industry.

Census Dataset Data Pre processing

- completed a data preprocessing project on a US census dataset obtained from Kaggle.
- Demonstrated proficiency in data manipulation and preparation techniques.
- Applied data preprocessing methods to clean, transform, and format the census dataset.

Online Shopping Cart

- Led a team of three in the development of a user-friendly online shopping application.
- Implemented object-oriented programming principles to create a seamless order placement process.
- Collaboratively designed and built the application, ensuring a user-friendly and intuitive experience for customers.

Quiz Game

- Designed a user interface for a quiz game using procedural programming techniques.
- Implemented subject-specific quiz questions and answers in the game.
- Developed functionality to provide instant feedback and results based on user performance.

SKILLS:

Programming Language ●●●●○
Python Language

Data Analysis ●●●●○
Data validation, cleaning, preprocessing, visualization, statistical analysis, exploratory data analysis

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Machine Learning ●●●◑○
Predictive analysis, supervised learning, unsupervised learning

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Deep Learning ●●●○○
Model building and training, Artificial Neural Networks, Convolutional Neural Networks

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Tools and Software ●●●●○
Python libraries (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Scipy), Latex, MS Office, Canva, Git, SQL.

CERTIFICATIONS

DataCamp:

Introduction to Numpy, Joining Data with pandas, Data Manipulation with pandas, Data Cleaning in Python, Introduction to statistics in Python, Data Visualization with Matplotlib, Introduction and Intermediate Data Visualization with Seaborn, Importing Data in Python, Exploratory Data Analysis in Python.
Introduction to regression with stats models, Supervised Learning, Unsupervised Learning, and Tree-Based Models in Python.

Edlab:

Active Learning, Classroom Management, Bloom's Taxonomy.

All certificates received are available on LinkedIn

AWARDS

Academic Scholarship:

- Received a full four-year merit-based academic scholarship from the NED Alumni Association South California (NEDAASC), covering all tuition expenses.