

## EDUCATION

- **National University of Science and Technology, NUST** 2023 (Ongoing)  
*Master's in Computational Science and Engineering, SINES, Islamabad*
- **NED University of Engineering and Technology** 2018 (Graduated)  
*Bachelor's of Engineering (Civil), Karachi*
- **Commecs College of Emerging Science** 2014 (Graduated)  
*Pre-Engineering, Board of Intermediate Education, Karachi*
- **Beaconhouse School System** 2012 (Graduated)  
*Computer Science Group, Cambridge University Board (O-level), Karachi*

## EXPERIENCE

- **Research Associate, NUST** November 2022 - April 2023  
Islamabad
  - Data preprocessing, Data preparation, Time series Analysis
  - Applying ML models, Accuracy Assessment, Applying DL models, Data Analysis
- **Data Analyst, Dense Fusion** Jan 2022 - Dec 2022  
Islamabad
  - collecting, analyzing, and interpreting data to uncover trends and insights
  - collaborated with teams to enhance data collection processes and ensure data quality
- **Internee, IAL** Aug 2021 - Sep 2021  
Islamabad
  - Data Gathering, Data pre-processing
  - Time series Analysis
- **Junior Project Manager, Pinnacle Consultation Group** 2019 - 2021  
Karachi
  - Quantity Estimation, Data gathering and processing
  - cost estimation, Planning and management

## PERSONAL PROJECTS

- **Master's Thesis** 2022-2023  
*Change Detection & Tracking of the Coastline of Pakistan using Machine Learning and Remote sensing*
  - Tools & technologies used: GIS, Python, Machine Learning, Image Segmentation, Random Forest, Supervised machine learning, Time Series Analysis
- **Time Series Data Analysis on Carbon dioxide Emissions using ARIMA** 2022-2023  
*A sequence of numerical data obtained at regular time intervals.*
  - Tools & technologies used: Python, Machine Learning, Moving Average, Jupyter notebook
- **Satellite-based Image Classification** 2022-2023  
*Year-wise Image classification of Islamabad*
  - Tools & technologies used: Python, Machine Learning, Image Segmentation, Random Forest, Supervised machine learning, Time Series Analysis

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, javascript  
**Developer Tools:** VS Code, ArcGis, Qgis  
**Soft Skills:** communication, teamwork, leadership, adaptability, and problem-solving  
**Coursework:** Short course on SQL, Workshop on Deep learning  
**Areas of Interest:** GIS, Machine Learning, Google Earth Engine

## POSITIONS OF RESPONSIBILITY

- **Research Associate, Image Analysis Lab** Aug 2022 - Dec 2022
- **Lab Assistant, Image Analysis Lab** Aug 2021 - Dec 2021

## REFERENCES

- References would be provided in request