

# Adeer Khan

[adeerkhan.github.io](https://github.com/adeerkhan) [adeer.khan@outlook.com](mailto:adeer.khan@outlook.com) [in/adeerkhan](https://www.linkedin.com/in/adeerkhan) [@/zaland3d](https://www.instagram.com/zaland3d)

## Experience

---

**Data Science Intern, Joyn Group Pvt. Ltd.** Aug 2023 – Present

- Engaged in the development of an Urdu audio transcription model through the OpenAI Whisper model and Mozilla dataset for quotation generation, deployed through Amazon AWS.

**Asset Integrity Engineer, Softoo Pvt. Ltd. (collaboration with Abyss Solutions)** Mar 2023 – Aug 2023

- Engaged in remote evaluations of offshore and maritime oil platforms using Lidar and Photogrammetry methodologies, aiming to pinpoint regions for enhancement.
- Collaborated with multidisciplinary groups encompassing project leads, engineers, and data analysts to orchestrate assessments of asset integrity and devise adept resolutions to intricate challenges.

**Apprenticeship, McKinsey & Company (Remote)** Nov 2022 – July 2023

- Developed expertise in strategic thinking, problem-solving, and decision-making through rigorous case studies and practical exercises.
- Applied advanced frameworks and methodologies to solve real-world business challenges, fostering innovation and driving organizational success.

**Graphics Head, IEEE CUST Student Branch** Jan 2019 – Aug 2022

- Led a team of graphic designers to manage IEEE social media and other graphical works.
- Organized over 40 webinars and mega-events such as AI-Funoon Gala and ICSEC.

## Projects and Publications

---

- Machine learning-based monitoring and modeling for Spatio-temporal urban growth of Islamabad. [🔗](#)
- Self-Driving Car Traffic Sign Classification using Keras, deployed through IBM Watson Cloud.
- Deployed Pneumonia diagnosis through X-ray image analysis model on streamlit, contributing to accurate medical diagnoses and treatment strategies for respiratory conditions. [🔗](#)
- Applied machine learning algorithms for classification using popular datasets (Breast Cancer, Wine, Iris) and diverse models to achieve precise instance categorization. [🔗](#)
- OpenAI LLM based cloud deployed Podcast summarizer application on streamlit. [🔗](#)
- A langchain based agent model that allows users to interact with their uploaded image on streamlit. [🔗](#)
- Pavement distress identification and drainage assessment using LIDAR Point Cloud and satellite imagery.

## Technical Skills

---

- Geoinformatics (GIS):** GIS data monitoring (ArcGIS), Remote Sensing (QGIS), and PyQGIS plugin dev.
- Computer Vision/Photogrammetry:** Open3d, OpenCV, PointNet, YOLO, scikit-image, Autodesk Recap.
- Design and Analysis:** Sketchup 3d, Blender, Unreal Engine, Rhino7 and Grasshopper.
- Programming/Toolboxes:** C++, Python, MATLAB, GIT, Docker, OpenAI API, Whisper, Streamlit.
- Machine Learning:** Data cleaning and analysis, Numpy, Matplotlib, Pandas, Seaborn, Plotly & Cufflinks.
- Deep Learning:** Neural Networks, TensorFlow, PyTorch, Keras.
- Presentation:** Paraview, Microsoft Office, Adobe Illustrator and Photoshop.

## Education

---

**CAPITAL UNIVERSITY OF SCIENCE AND TECHNOLOGY (CUST)** Islamabad, Pakistan

B.Sc. Civil Engineering **CGPA: 3.88/4.0 (Gold Medalist)** Sep 2018 – Jul 2022

**ROOTS INTERNATIONAL COLLEGES** Islamabad, Pakistan

Cambridge International Examination IGCSE AND A-LEVELS with 7 A's Aug 2014 – Aug 2018

## Certifications & Courses

---

- Machine Learning Specialization from Stanford. [🔗](#)
- Introduction to Computer Vision and Image Processing from Coursera by IBM. [🔗](#)