

Muhammad Ali



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ACHIEVEMENTS

- IELTS; 8.0 bands (Listening : 9, Reading : 8, Writing : 7, Speaking : 7).
- MS in Computer Science (CGPA : 3.37) and Finance (CGPA : 3.71).
- Coursera Instructor for 5 online project based courses.
- 2 times recipient of Linux Foundation Training (LiFT) scholarship.
- OpenVINO-Colab Creator, an edge AI opensource project which got appreciations from senior Intel managers.
- Qiskit (IBM) Translation Lead for Urdu.

WORK EXPERIENCE

Digital Product School, Germany – <i>Artificial Intelligence Engineer</i>	<i>Sep2021– Dec 2021</i>
<ul style="list-style-type: none">• Selected among the pool of 600+ applicants.• Tools Used:<ul style="list-style-type: none">- Python, Google Vertex AI, Google Cloud Functions, Google Cloud Storage• I built an AI based layout recommender for a hybrid team collaboration software. The models were created and deployed using Vertex AI and then integrated into the chrome extension script along with preprocessing logic using Cloud Function endpoints.	
Flaskdata, Israel – <i>Lead Machine Learning Engineer</i>	<i>March 2021 – May 2021</i>
<ul style="list-style-type: none">• Tools Used:<ul style="list-style-type: none">- Python, Human-Learn• I built an interactive python based graphical annotation and machine learning solution for clinical anomaly detection. The solution helped the team easily annotate the tabular data as clusters right in their notebooks.	
iRAP, Australia – <i>Machine Learning Engineer</i>	<i>Nov 2020 – Jan 2021</i>
<ul style="list-style-type: none">• Tools Used:<ul style="list-style-type: none">- Python, PyCaret, Streamlit• I built a web application to predict road safety star ratings based on 60+ features. The solution helped the organization to move from manual to AI based road safety benchmarking.	
Coursera Inc, USA – <i>Guided Project Instructor</i>	<i>Jan 2020 – June 2021</i>
<ul style="list-style-type: none">• I taught the following tools in my 5 projects based online courses:<ul style="list-style-type: none">- Kubernetes, Prometheus, Grafana, Google Kubernetes Engine (Autopilot).	
Habib Bank Ltd, Pakistan – <i>Compliance Trainee Officer</i>	<i>April 2020 – Aug 2020</i>
<ul style="list-style-type: none">• I applied AML/CFT methods like KYC, CDD, EDD for fraud and money laundering detection.	
PIAIC, Pakistan – <i>Artificial Intelligence Faculty</i>	<i>April 2019 – Feb 2020</i>
<ul style="list-style-type: none">• I taught the following to more than 1200+ AI students in the largest AI educational initiative of Pakistan:<ul style="list-style-type: none">- Python, Data Preprocessing, Machine Learning	

EDUCATION

Virtual University of Pakistan – <i>MS Computer Science</i>	<i>CGPA: 3.37 / 4.0</i>	<i>Oct 2019 - Oct 2021</i>
University of Karachi – <i>MS Finance (Commerce)</i>	<i>CGPA: 3.71 / 4.0</i>	<i>Jan 2015 - Dec 2016</i>
University of Karachi – <i>BS Banking & Finance (Commerce)</i>		<i>Jan 2012 - Dec 2013</i>

MACHINE LEARNING PROJECTS

Auto911 - AI based 911 Emergency Responder App

- Tools Used:
 - GPT-J, Python, Streamlit
- Purpose: To automate 240 million 911 emergency responses received annually in US.

OpenVINO-Colab Python Package

- Tools Used:
 - Python, OpenVINO-Toolkit, Google Colab, Oracle Cloud Storage.
- The project got appreciations from Intel's Senior AI Product Manager (Zoe Cayetano) and AI Evangelist (Raymond Lo).
- Purpose: To build an OS agnostic python package that allows users to use OpenVINO-Toolkit in Google Colab.

Email Spam and Non-Spam Classification Web App

- Tools Used:
 - Python, Scikit-Learn, Streamlit, Lime
- Purpose: To train, test and compare 5 different machine learning models (max model accuracy : 98.6%) and deploy them as end-to-end web application.

VOLUNTEER WORK

iCode Guru, USA – *Instructor*

- I voluntarily teach machine learning and IELTS classes at iCode Guru, a community of 5000+ underprivileged students.

IBM, USA – *Qiskit Translation Lead (Urdu)*

- Worked with senior IBM managers like Yuri Kobayashi and Zia Mohammad.
- Initiated the official Urdu translation of IBM's Quantum Computing Framework, Qiskit to allow the upcoming generation of Urdu speaking quantum computing students and engineers to learn Qiskit in their native language.

HACKATHONS

Hackmakers #BuildwithAI - *Mentor*

- I guided teams to build their machine learning applications using lean AI principles and due to my mentorship, a candidate was able to secure a full-time job at Neural lab, a PaaS based international software house.

International Data Analysis Olympiad – *iCode Guru Country Lead*

- Leading students in the IDAO Olympiad from the platform of iCode Guru.

ARTICLES

Streamlit101: Deploying an AutoML Model Using Streamlit

- A step-by-step guide on creating machine learning web apps using streamlit.
- The article got appreciated by Streamlit and was included in their weekly newsletter.

Auto911: Let's Automate 240 Million 911 Queries using AI

- A step-by-step guide to use opensource GPT-J model to create few-shot machine learning web application.
- Got published in Towards Data Science, a publication having 500,000+ followers on medium.