



MUHAMMAD SAAD NAJIB

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Date of birth 08/09/1998

Nationality Pakistani

Personal Statement

Artificial Intelligence enthusiast and Computer Science graduate. Competent not only in Technical Areas but also in Team work, Leadership, Time Management and Communication. Also passionate about data analysis and eager to apply my analytical and technical skills to solve complex problems in real-world settings.

Academic Record

Year of Passing	Degree	Institution
2022 - 2026	M.Sc. Computer Science	RPTU Rheinland-Pfälzische Technische Universität
2016 - 2020	BSc Computer Science	Usman Institute of Technology Affiliated with NED University of Engineering and Technology
2014 - 2016	HSSC, Pre- Engineering	Army Public School - (APSACS)
2012 - 2014	SSC	Army Public School - (APSACS)

Final Year Project

Automatic Image Colorization System

The Project was based on CNN i.e., Convolutional Neural Network, that learned complex mappings and was able to predict colors using several colored sample images. Neural network was formed by several further subcomponents. A fully automatic approach produces vibrant and realistic colors using Deep Learning techniques and methods. We trained our system to identify basic colors so that it can convert greyscale color pictures to realistic colorizations.

Internships / Jobs

October 2022 –
Sep 2023

Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI) - Research Assistant

Worked on machine learning pipeline, semantic datatype checking and dataset generation, worked with large datasets to build predictive models that enhanced decision-making processes.

November 2020 –
March 2022

Aletheia-AI - Machine Learning Engineer

Joined as an intern in the system deployment team and was upgraded shortly for a full-time position in the product development department as Machine learning Engineer, now involved in the development of Facial Recognition Pipeline among other tasks.

December 2020 –
February 2021

Amal Career Prep Fellowship

Education startup funded by Stanford University that teaches professional skills to students and corporations.

- Communication: Completed a competitive written application and interview process to be selected from over 4500 applicants for intensive 3-month Fellowship funded by Stanford University.
- Skills development: Investing 150 hours in order to develop business skills (e.g., communication, leadership, problem-solving, teamwork, etc.) that will help me make a deeper impact on the job.

October 2020 –
November 2020

Interns Pakistan - Frontend Web Developer Intern

In this internship I understood the concepts of HTML & HTML5, CSS, CSS3 Flex & Bootstrap, JavaScript, ES6 & jQuery, PHP and made a WordPress theme from scratch.

February 2020 –
March 2020

Digital Landscape - Artificial Intelligence Intern

Digital Landscape is a software house where I have worked as an Artificial Intelligence Developer, during that time I have completed a project of facial recognition system.

September 2018 –
October 2018

Pakistan Civil Aviation Authority - Web Developer Intern

Worked on ASP.NET development project in IT department.

February 2016 –
April 2016

Pakistan Television Corporation Limited - IT Intern

Worked on different projects in IT department.

Projects

1. Image Colorization System Using GAN

It was a final year project that converts grayscale images to colored images.

2. ArcFace and Cosface Model implementation for facial recognition

I have implemented different Models by writing an inference code and by using Insightface repository.

3. OpenVino FaceNet-Model-Implementation

I had worked with Openvino models like FaceNet and RetinaFace in facial recognition pipeline.

4. Image Classification System

Using Cifar10 dataset I had made an Image classification system that can classify 10 different classes.

5. Face Recognition System

I had used LBPH face recognition algorithm its old yet popular face recognition algorithm with frontal face haar cascade for face detection.

6. Registry Web App using React JS

I had made a Registry Web App with React-JS just to understand the concepts more clearly.

7. Created a WordPress Theme

I had made a WordPress Website Theme using PHP from scratch.

Licenses and Certifications

- 1. Neural Networks and Deep Learning** (Coursera)
- 2. Introduction to Data Science** (Cognitive Class)
- 3. Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** (Coursera)
- 4. Artificial Intelligence Foundations: Machine Learning** (LinkedIn)
- 5. Machine Learning Crash Course** (Google Developers)
- 6. Deep Learning with PyTorch: A 60 Minute Blitz** (Pytorch.org)
- 7. Introduction to Front-end Development with ReactJS** (Coursera)

Achievements

2021

Paper Publication on KIET Journal of Computing and Information Sciences

My Bachelor Final Year Project titled "An efficient Convolutional Neural Network based Image Colorization Technique" has been published in KIET Journal, HEC recognized 'Y' category journal. Link: <https://kjcis.kiet.edu.pk/index.php/kjcis>

2020

Arctic Code Vault Contributor

The GitHub Arctic Code Vault is a data repository preserved in the Arctic World Archive (AWA), a very-long-term archival facility 250 meters deep in the permafrost of an Arctic

Mountain. The archive is located in a decommissioned coal mine in the Svalbard archipelago, closer to the North Pole than the Arctic Circle. GitHub captured a snapshot of every active public repository on 02/02/2020 and preserved that data in the Arctic Code Vault.

2020

Rank in BS Computer Science Department
4th Position in BS Computer Science Department.

**Community
Service
Experience**

April 2019 – August
2019

The Citizens Foundation
Raised funds for the education of those children who are unable to pay their expenses.

April 2019 – June
2019

Family Educational Services Foundation
Raised funds for people in need.

**Extra-Curricular
Activities**

2017-2020
2018
2017

Event Management in Different Societies in University.
Departmental Table Tennis Player.
Captain of Departmental Football Team.

Computer Skills

Machine Learning	Deep Learning	C/C++/ C#	Python
OOP	OpenCV	Image Processing	JavaScript