

Muhammad Ishaq

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Objective	Hardworking, Skilled Artificial Intelligence analyst with the proven and solid understanding of Machine learning, Deep learning, Computer vision, Natural Language processing and other programming skills seeking for internship in Artificial Intelligence domain.		
Education	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)	Topi, PK	2020 - 2024
	Bachelors of Science in Artificial Intelligence CGPA: 3.03/4.00		
	Bradford science school and college Chokara, karak	Karak, Pakistan	2017 - 2019
	Intermediate Grades: 81%		
Work Experience	Intern GIKI(weed detection in crops) Trained a YOLOV5 model on weeds dataset in crops to detect weeds in crops. The YOLOV5 model trained using transfer learning technique on our custom dataset. The aim is to remove weeds from crops using computer vision technique.		
	Upwork (Freelancer) Working on computer vision, deep learning, NLP and machine learning project on Upwork remotely.		
	Remote, USA Aug 8 2022 - Present		
Academic Projects	Driver Drowsiness Detection (Deep learning based classification model) Designed a convolutional neural network-based model with Tkinter GUI that predicts whether the driver is sleepy or not while driving. The system was fed a continuous frame of the driver's face and the model just classified these frames, based on these classifications the model has to decide whether to raise alarm or not. The goal is to avoid accidents due to drowsiness.		
	Traffic sign detection for self driving car (Computer vision based model object detection) Designed and trained computer vision concept-based YOLOV5 model with Opencv GUI to detect the traffic sign in real-time (live). Using the transfer learning technique YOLOV5 has trained on a custom dataset to take action according to the traffic sign detected. The goal is to make the self-driving car drive according to traffic signs.		
	Kaggle work participate in many competitions like "House Prices - Advanced Regression Techniques" using EDA and xgboost algorithm through a pipeline. Also competed on "2018 Data Science Bowl" competition using Unet for image segmentation. Also worked pakwheels dataset using EDA and random forest and many more.		
	Shoprocery (DBMS based mess management) Designed a website using PHP, MySQL, HTML, and CSS for the online grocery store. The home page shows up a push button for further interfaces for buy now, delivery boy, and customer details each GUI contains the set of actions allowed for each person(user/employee). The main motive is to sell grocery items online with the facility of home delivery.		
	GIKI Mess Management (DBMS based mess management) Designed web using SQL, PHP, HTML, Bootstrap, and CSS to manage the GIKI mess system in an efficient and digitalized way. I have designed three sections on the home page for students, employees, and admin containing the action of each. The aim is to manage the Giki mess system clearly, efficiently, and in a well-mannered way.		
	xv6-riscv (Operating system) Program and add multiple system calls e.g(cat with -n, ls command, and mmap algo) to xv6-riscv operating system xv6 is an MIT-designed operating system. To add system calls changes are made to the system files and user files of the xv6. The main goal is to add multiple system calls and a better algorithm to xv6-riscv.		
	Flappy bird game (python) Designed a Flappy bird game using pygame library python while considering rendering lower and upper pipe with screen ratio. The home page shows up on the welcome screen with a start button by pressing start the game will continue until it hits any of the pipes or walls.		
	Explore KPK with low cost and time (dijkstra algorithm based shortest path implementation) Program a guide using the Dijkstra algorithm in c++ to find the shortest path in cities in kpk. The user should enter the starting point and destination in KPK then the system will find the shortest path by time and cost. The aim is to facilitate people to travel at a low cost and less time as well.		
Awards & Achievements	- KPK, Chief Minister Scholarship fully funded/Got 19 position in GIKI test though out the KPK. - Free 12th education/Got third position in college in board exams (11th exam).		
Skills	- Deep Learning from scratch, Machine learning from scratch, Computer vision, Python (Steamlit, Tkinter, Pygame, Matplotlib, pyqt5 etc). - NLP from scratch, Data analysis (visualization, cleaning, formatting etc), Data mining, EDA - C++, C, SQL, Operating System(linux, windows).		