

Syed Ahmed Mahmood

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EDUCATION

**BACHELORS OF SCIENCE
COMPUTER SCIENCE
FAST NUCES | KARACHI,
PAKISTAN**
September 2020 - Present
CGPA: 3.93 / 4.0

**A LEVEL
BEACONHOUSE COLLEGE
PROGRAMME | KARACHI,
PAKISTAN**
Grad. May 2020
2A* and 1A

COURSEWORK UNDERGRADUATE

- Artificial Intelligence
- Deep Learning for Perception
- Parallel and Distributed Computing
- Operating Systems
- Data Structures
- Design and Analysis of Algorithms
- Database Systems
- Computer Networks
- Object Oriented Programming
- Probability and Statistics
- Fundamentals of Management
- Global Marketing

SKILLS

TECHNICAL

- C/C++
- Python
- FastAPI
- Matplotlib
- Pandas
- NumPy
- TensorFlow
- Scikit-learn
- Hugging Face
- SQL
- Git
- Docker

SOFT SKILLS

- Leadership
- Conflict Resolution
- Critical Thinking
- Time Management
- Interpersonal Skills
- Attention to Detail
- Quick Learning

EXPERIENCE

AI INTERN AT FOLIO3 | JUL 2023 - OCT 2023

- Spearheaded research and development for a Deep Learning Model, to transition from previously used traditional ML approach, **addressing limitations in curved lane detection.**
- Achieved impressive results to secure project manager's approval for utilisation of **AWS** resources, and subsequently **assigned a team to lead.**
- **Resolved a critical issue causing a two-month delay in a flagship AI project,** and achieved key milestones to bring the project back on track.

PROJECTS

RENT-A-ROO | ONLINE PROPERTY RENTAL MARKETPLACE

- Developed the backend by building fast and efficient **Restful APIs using FastAPI.**
- Optimized **PostgreSQL** database schema design by applying BCNF normalization for efficient storage, retrieval, and management of application data.

TABLEXTRACT | TABLE RECOGNITION AND EXTRACTION

- Fine-tuned a **YOLOv8** model for table detection and integrated it with a **Hugging Face transformer** model for table structure recognition, on a backend developed using FastAPI to accurately and efficiently extract tables as csv files, from an image of a scanned document.
- Utilized **Firebase** for secure API authentication and login/signup functionality.
- Collaborated with the frontend developers to integrate the backend API with the React Native app for a seamless user experience.

SEER | VIDEO AND IMAGE OBJECT SEGMENTATION

- Developed a FastAPI backend for a React web application, which uses a **fine-tuned YOLOv8 model** for object segmentation.
- Model trained to detect various classes, user uploads an image/video and chooses objects to segment, app shows masks, bounding boxes, confidences, and labels for these objects.
- User can select objects to keep and remove the background(transparent, replace with background image, colored background).
- Utilized **Firebase** for secure API authentication and login/signup functionality.

CERTIFICATIONS

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE | COURSERA

ACHIEVEMENTS AND HONORS

2ND POSITION(SILVER MEDAL) AMONGST BATCH OF 2020 IN BS(CS)
(Spring 2023)

RECTOR'S LIST FOR OUTSTANDING ACADEMIC PERFORMANCE (Fall 2021)

DEAN'S LIST FOR ACADEMIC EXCELLENCE (Fall 2020, Spring 2021, Spring 2022, Fall 2022, Spring 2023)

NOMINATED FOR SCHOLARSHIP BY SYSTEMS LIMITED (2023)

AWARDED CAMPUS AMBASSADORSHIP BY SYSTEMS LIMITED (2023)