

Muhammad Ahmad



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INTRODUCTION

A highly driven and intellectually curious Computer Science undergraduate with a robust foundation in Android Development and a multifaceted proficiency in diverse programming languages. With a profound interest in Data Science and Data Analytics, I aspire to harness advanced analytical techniques to conceptualize and implement transformative models and cutting-edge solutions.

EDUCATION

FAST - NUCES (CFD Campus), Pakistan

Bachelor of Science in Computer Science

2021 - 2025

DPS College Faisalabad, Pakistan

Intermediate (Per-engineering)

2019 - 2021

SKILLS & TECHNOLOGIES

- Python, C++, Java, SQL, HTML, CSS, React native JS, kotlin
- Android Studio, Windows Form, Linux
- Problem Solving
- SQL, MongoDB, FireBase
- LLMS, Fine Tuning of LLMS
- Prompt Engineering

EXPERIENCE

Object-Oriented Programming , DataBase for Busniess

Teaching Assistant | (FAST NU)

(Jan. - June) , (Aug. - Dec) 2024

- Assisted in teaching Object-Oriented Programming to 50 students.
- Prepared and graded weekly assignments and quizzes for 16 weeks.

SELECTIVE PROJECTS

NUTRICARE (FYP)

- Nutricare is an AI-driven tool that bridges the healthcare gap in rural areas by enabling early malnutrition detection and providing personalized nutritional recommendations.
- Nutricare empowers parents with malnutrition predictions, personalized nutrition plans, easy nutritionist consultations, and supports healthcare workers in bridging tech access gaps.
- Nutricare leverages AI for malnutrition prediction, personalized nutrition plans, virtual consultations, real-time assessments, and tailored dietary recommendations.
- React native JS, Machine Learning, MangoDB

Fine Tuning of LLMS

- LLAMA -2 , GPT-2 , BERT mode.
- Fine-tune a custom dataset to enhance text summarization capabilities by carefully editing the first and last hidden layers of the large language model (LLM).
- Python, pytorch

WhatsApp (Clone)

- Use Computer Networks Concepts
- Client-Server Architecture: Develop a robust architecture enabling real-time messaging between connected clients through a central server.
- Advanced Features: Implement a plethora of advanced features including text messaging, media sharing (images, documents), Sharing Status and group chats.
- Security Enhancement: Employ end-to-end encryption mechanisms to safeguard user privacy and ensure message integrity.
- JAVA , Android Studio, FireBase

FACE DETECTION AND RECOGNITION

- Real-time face detection is accomplished by this Python code by utilizing the OpenCV package.
- Capable of detecting faces in real-time video streams and drawing rectangles around them.

PERFORMANCE COMPARISON ON IRIS FLOWER SPECIES CLASSIFICATION

- Using Artificial Intelligence Concepts
- Analyze and compare the performance of Perceptron Learning Rule and Gradient Descent Delta Rule.
- Experiment with different activation functions and learning rates.
- Results of experiments with different activation functions and learning rates.

EVENT MANAGEMENT SYSTEM

- Developed a comprehensive Event Management System using C#.
- Employed SQL queries for retrieving and displaying event information to users.
- Integrated user authentication and authorization mechanisms for security.

INTERESET

- Data Analysis
- AI
- E - Gaming
- Research in Finding AI tools