Muhammad Minhal Manjee

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ACHIEVEMENTS

- Taught international students as a Section leader at Code In Place 2024, a course by Stanford University. (See here)
- Achieved 7.5 Bands in IELTS (See here)
- Featured across University media pages for being the only student selected as Section Leader in Code in place. (See here)
- Achieved Falcon AI71 Hackathon 2024 acceptance, developed real-time mental health coach with international team members by fine-tuning Ai71 Hub Model with multiple personalities. (See here)
- Participated in Llama 3 Hackathon in which our team developed an AI news-Analyzer, with two key agents, the News Editor and the News Analyst to identify and enhance content readability. (See here)

EDUCATION

FAST NUCES University — Karachi, Pakistan
Bachelor of Science in Computer Science — Aug 2020 - June 2024
CGPA: 3.05
Honor: Earned Dean's List honors for three semesters by maintaining a semester GPA above 3.5.

SKILLS

Web & Databases:	MySQL, SQL Server, Mongo DB, SQLite
Open Source:	Git, Docker
IDEs:	Visual Studio Code, Jupyter Notebook, Google Colab
Languages:	C, C++, Python
Cloud Technology:	Microsoft Azure, AWS, Google Cloud

PROJECTS

Lablab.ai - Falcon AI71 Hub Hackathon (Github) — **July 2024**
Mental Health Coach
Technologies Used: Django, Next.Js, Onrender

- Developed a smart application using the backend in Django and frontend in Next.Js
- Created an Artificial Intelligence system that utilizes a finetuned model in order to serve as a coach for mental health.
- Implemented real-time personality selection allowing users to choose their type and communicate with the coach.
- Incorporated a chat and audio input/output system to cater to all users.
- Planned future enhancements to include RLHF and a storage system for user history.

Fundamentals Of Computer Vision - Course Project (Colab | Github) — **Nov 2023**
Menu Items Detection
Technologies used: Yolov8, Roboflow, Google Colab

- Developed an object detection system for food recognition using YOLOv8, a cutting-edge model known for its high accuracy in benchmark datasets.
- Utilized Roboflow, a cloud-based platform, to manage and augment the training data, improving the model's performance in food recognition tasks.
- Achieved precise identification of various food types, demonstrating the effectiveness of the combined use of YOLOv8 and Roboflow.

Design & Analysis of Algorithms - Course Project (Github) — **April 2024**
Analysis of Complexities in Algorithms
Technologies & methods used: Python, Graham Scan, Jarvis March, Quick Hull

- Implemented geometric algorithms like line intersection and convex hull generation.
- Analyzed time and space complexities for each algorithm based on experiments.

Applied DevOps - Course Project (Drive) **April 2024**
CI/CD Implementation
Technologies used: Github, Azure DevOps

- Source Code & CI: Managed code using version control system with CI pipeline and unit/automated tests.
- CD & Release: Set up a CD pipeline with release gates and deployment rings (slow, fast, production).
- Infrastructure & Containers: Used Infrastructure as Code (IaC) and containerization for scalable deployment.
- Monitoring & Collaboration: Implemented using Azure DevOps for monitoring and Slack for instant notifications from dashboards.

Real-time Translation & Lip Syncing (Github)
Technologies used: OpenAI, Wav2Lip, Flask, Llama 2 **May 2024**

- Translated English videos into Urdu language for students. Utilized OpenAI Whisper and Google Translate.
- Implemented lip reanimation techniques to synchronize video presenters' lip movements with translated Urdu audio, using Wav2Lip and LipGan.
- Applied NLP with Llama 2 to generate personalized explanations for technical terms in video content.
- Bridged language gaps by integrating translation, lip reanimation, and personalization for Urdu-speaking students.

VOLUNTEER EXPERIENCE

Code in Place Stanford University Remote - California USA
Section Leader (See here) April 2023 – June 2023

- Taught international students Python from scratch using Karel the Robot Stanford.
- Helped other mentors to discuss new teaching methodologies.
- Created a peer-mentorship program to foster a supportive learning community.
- Encouraged students to explore their creativity and develop problem-solving skills by actively promoting brain-storming in separate rooms of 2-4 pupils and practice implementation.

Hypercube Hackathon - Davinci's Construct Karachi, Pakistan
Assistant Director (See here) June 2018

- Assisted Participants in team formation. facilitating collaboration and creating diverse and effective teams for hackathons.
- Provided technical support to teams for implementing technical projects.
- Analyze and finalize finalists for each hackathon by reviewing presentations and projects, ensuring fair evaluation and recognition of outstanding work.

COURSES & CERTIFICATIONS

CertiProf & Datacamp Remote - NewYork USA
April 2023 – June 2024

- CertiProf Scrum Foundation Professional Certification. (See here)
- Cluster Analysis in Python. (See here)
- Anomaly Detection in Python. (See here)
- Dimensionality Reduction in Python. (See here)