AHSAN ASHRAF

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Education

National University of Computer and Emerging Sciences	September 2021 – Present
Bachelor of Science in Computer Science	*CGPA: 3.62/4.0*
Adamjee Government Science College	September 2019 – July 2021
Higher Secondary Education Certificate	*Percentage: 95.5*

Experience

Goodcore Software Limited — June 2024 – July 2024
Software Engineer Intern — *On site*

- Implemented **interactive and dynamic forms and tables**, significantly enhancing web application functionality and user experience by ensuring seamless data entry and validation. Improved user interfaces by applying **modern UI/UX principles** for a more intuitive and visually appealing experience.
- Contributed to the scalability of an existing product by optimizing backend processes and database queries, resulting in a **30% performance increase** and the ability to cater to a larger user base.
- Worked on **version control with Git**, and agile methodologies. Conducted code reviews, providing constructive feedback to ensure code quality and adherence to best practices.

Capelin Solutions — March 2024 – May 2024
Junior Python Developer — *Remote*

- Created Python scripts to generate **podcast feeds** to host audio files and feed data using Azure Storage.
- Developed and implemented Python scripts for **trimming audio and video files** based on transcripts, generating summaries using **OpenAI's GPT-4** and the Transformers library, and automating the creation of podcast cover images. This work included handling multimedia files, integrating APIs, and optimizing workflows for efficient content production.

Projects

AI Gym Trainer and Diet Recommender | *Python, OpenCV, Mediapipe, Tkinter, Pandas, Scikit-learn, Flask, Flutter*

- Developed the **AI Gym Trainer** using **OpenCV and MediaPipe** for real-time exercise monitoring and feedback, and implemented a **personalized diet recommender** using **Pandas** and **Scikit-Learn**. Created a user-friendly GUI with Tkinter for desktop and integrated the system into the Fit Sync mobile app using Flutter and Flask, enhancing the fitness and dietary tracking experience for users.

AK Car Rental Website | *React.js , Node.js , Express.js , MySql*

- Managed full-cycle development of a sturdy **car rental platform** with 8-10 pages, integrating a user-friendly portal for smooth car rentals and a detailed admin dashboard. Designed a scalable solution with features like live tracking of **rental requests**, **car registration for listings**, and user administration. Introduced an update system for prompt notifications of rental status changes. Resulted in a highly efficient system for enhanced user and admin experience.

Technical Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Jupyter Notebook, Google Colab, Azure, Git, GitHub
Technologies/Frameworks:ReactJs, NodeJs, ExpressJs, Machine Learning, OpenCV, Linux, WordPress

Honors And Awards / Extracurricular

Dean's List	**National University Of Computer and Emerging Sciences**
Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023	
Hackathon	**ByteCorp Procom**
Runner Up	*AI / ML Solutions for Fleet Management*

Certifications

Data Science Professional Certificate: IBM
Crash Course On Python: Google
Django Web Framework: Meta
Introduction to Computer Vision and Image Processing: IBM
Neural Networks and Deep Learning: DeepLearning.AI
C and C++ Specialization: University of California, Santa Cruz