Rao Muhammad Dayan Atif

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Education

SIR SYED UNIVERSITY OF ENGINEERING AND TECHNOLOGY *CGPA 3.96/4.00*
Degree: Bachelor of Computer Engineering *Graduation Date: July 2027*
Relevant Coursework:

- Data Structure and Algorithms
- Object Oriented Programming

Experience

STANDARD UNIVERSITY - CODE IN PLACE *Stanford , USA*
Section Leader *April 2025 – June 2025*

- Served as a section leader at Stanford University Code in Place program, was responsible for teaching Stanford CS106A python course to international students.
- Led a class of 12 international students made a huge impact on guiding students starting their program journey.

International Hackathons

META HACKER CUP 2024 *California, USA*
Team Lead *Sep 2024*

- Lead a team to compete in META hacker cup 2024 in which we successfully qualified for the first round.

HARVARD CS50x PUZZLE DAY *Cambridge, Massachusetts*
Team Lead *April 2025*

- Selected as team lead for a 4-member group in Harvard CS50x Puzzle Day 2025.
- Coordinated team roles, time management, and problem-solving strategies throughout the event.
- Successfully solved all **9 challenging logic and coding puzzles** within the allotted time, demonstrating strong analytical thinking and teamwork.

AI AGENTS HACK WITH LABLAB AND MINDSDB *San Jose, CA*
Machine Learning Engineer *Sep 2024*

- **Developed a Streamlit-based AI application** that suggests potential diseases and health tips based on user-selected symptoms, enhancing health awareness through intuitive UI.
- **Implemented a rule-based symptom-to-disease mapping system**, allowing users to receive informative, non-diagnostic suggestions along with relevant health tips.
- **Emphasized ethical AI use by integrating a clear medical disclaimer**, ensuring responsible communication of limitations and promoting professional healthcare consultation.

Projects

Image Classifier *Project*

- **Interactive image classification web app** using Streamlit and MobileNetV2 pretrained on ImageNet, enabling real-time predictions on uploaded images.
- Integrated image preprocessing and prediction pipeline using TensorFlow and PIL, ensuring compatibility with deep learning model input standards (224×224 resolution, normalized arrays).
- Displayed model predictions with confidence scores and visual feedback, enhancing user experience through intuitive image upload and result presentation interface.

Cold Email Generator *Project*

- **A customizable cold email generator web app** using Streamlit, allowing users to dynamically input recipient details, message intent, and personalized content.
- Implemented dynamic email templating logic with Python functions and form inputs, enabling real-time preview of professional cold emails.
- Enhanced UI/UX with custom styling and Markdown integration, including dark mode theming, branded image header, and responsive input layout.

Catch the Thief *Project*

- Maze-based game in Python using Pygame, with procedural grid generation, BFS/A* pathfinding, and power-up mechanics.
- Designed intelligent thief NPC behavior with probabilistic decisions and police pursuit using BFS/A* algorithms for dynamic gameplay.
- Added neon visuals, particle effects, screen shake, and synthesized audio, optimized for cross-platform performance, including Emscripten.

Certifications

Supervised Machine Learning: Regression and Classification: Stanford - DeepLearning.Ai

- Certificate - Completed [Oct 2024]

Advanced Learning Algorithms: Stanford - DeepLearning.Ai

- Certificate - Completed [Feb 2025]

Introduction to Machine Learning on AWS: AWS

- Certificate - Completed [June 2025]

Skills

Programming Languages: Python, Java, C++, C
Data Science & ML Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, PyTorch
Databases: MySQL, Firebase
Version Control: Git, GitHub
API Testing: Postman
Development Environments (IDEs): VS Code, PyCharm
Tools & Platforms: Google Colab, Firebase Console

Honour & Achievements

- Awarded **100%** Merit based scholarship for achieving the highest GPA in first semester.
- Awarded **35%** Scholarship for achieving a GPA of 3.91 in second semester.