Allen Bijo T

I am an aspiring student having passion in Machine Learning, interested in developing applications that integrate seamlessly with people's lives. I have the skills, the ambition and the curiosity to learn new things and create solutions that can bring about a positive change to everyday life.

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EDUCATION

- **Vellore Institute of Technology (VIT) Chennai**   Chennai, India
  Bachelor of Technology in Computer Science with spec. in AI and ML ; GPA: 9.0   2021 - Present
  Courses: *Design and Analysis of Algorithms, Object Oriented Programming, Machine Learning, Data Science, etc*

  - **JEE Mains**: Percentile: 96.911   (2021)
  - **Class 12**: Score: 93.6%   (2021)
  - **Class 10**: Score: 95%   (2019)

EXPERIENCE

- **LegalForce RAPC (GovernmentGPT)**   Hyderabad
  AI Intern (Full-time)   *January 2025 - Present*
  - **Audio Transcription**: Transcribe text from audio in different scenarios
  - **Vehicle description**: Implement different methodologies to describe vehicles from CCTV footage
  - **Civic Meeting Summarizer**: Summarize town hall meetings by topic and speakers
  - **3D Patent Design Generator**: Generate 3D models to assist patent creations

- **Indian Institute of Science (IISc)**   Bengaluru
  Research Intern (Full-time)   *August 2023 - November 2023*
  - **Analysis on NeRFs**: Analyse performance of different Neural Radiance Fields
  - **Dataset Collection**: Collect 360 Image Dataset for accurate scale reconstruction
  - **Resize and Background removal**: Implementation for scale accurate resizing and automatic 3D environment removal

PROJECTS

See all my deployed projects at tools.allenbijo.com

- **Gemini Live MCP Client** (`GitHub`): This client allows you to connect and use your MCP Servers with Gemini Live. Interact with Gemini using your voice, screen and camera. Access all functions available through MCP Servers.
  Technologies Used: FastMCP, Gemini Live.

- **Federated Attention Recommendation System** (`GitHub`): This project implements a Sequential Recommendation System based on federated learning, which combines federated learning techniques that preserve privacy with sequence-based recommendation models. A paper detailing the methodologies and findings of this project is currently being written.
  Technologies Used: NVFlare, Pytorch, Transformers.

- **Smart Alarm Clock** (`GitHub`): The Smart Alarm Clock is an innovative alarm system designed to adapt to your unique sleeping patterns. By learning from your snoozing behavior, it intelligently adjusts the alarm time to ensure that you wake up at the optimal time for your scheduled events.
  Technologies Used: Keras, Fitness API, Calendar API, Traffic API, Flask.
  Achievements: Finalist in IEEE-Yesist Innovation Challenge held in Egypt. (October '23)

- **Emotionnaire** (`GitHub`): Emotion Bot is a questionnaire system that records video responses and analyzes emotions from both video and audio inputs. This project leverages advanced machine learning techniques to provide insights into the emotional states of users.
  Technologies Used: OpenCV, Librosa, Keras, Flask.

- **Rekognise** (`GitHub`): Rekognise is an advanced attendance system that utilizes face detection technology to automate the process of tracking and recording attendance. This system aims to increase accuracy and efficiency by reducing the need for manual input and minimizing errors.
  Technologies Used: MTCNN, OpenCV, Resnet, FastAPI.

SKILLS SUMMARY

- **Languages**:   Python, R, SQL, C++, Java, JavaScript
- **Frameworks**:   Scikit, TensorFlow, Pytorch, Keras, Django, Flask

OTHER EXPERIENCE

- **Volunteer at NSS VIT Chennai**   Chennai, India
  Participated in multiple events for betterment of society, member of Debate team   *Feb 2023 - Present*

- **Member of Open Source Programming Club VIT**   Chennai, India
  Assisted in ongoing open source projects   *Feb 2023 - Present*