Tarun Kannuchamy

Student | Aspiring Data scientist

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Personal Profile

As a final year student from VIT Vellore, I am an aspiring data scientist with a keen interest in NLP. Through diverse projects, I have expanded my knowledge and explored new domains. Building my own ASR model, I showcased my ability to apply theoretical concepts to practical solutions. Known for being efficient, trustworthy, and committed to high-quality results, I am ready to contribute my skills and passion for data science and NLP to excel in relevant roles.

Education

Vellore Institute of Technology (VIT)
Vellore, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering
September 2020 - Present
- **Expected Graduation :** June 2024
- **Relevant Coursework:**

Data Structures and Algorithms	Database Management	Operating Systems
Object Oriented Programming	Computer Networking	Web programming
Computer Architecture	Artificial Intelligence	Machine Learning

DAV Public School
Chennai, Tamil Nadu
High School, CBSE
June 2018 - April 2020
- **Specialised in** Physics, Chemistry,Maths and Computer Science

Experience

Beyond Universe Software Technologies (BU Soft
Chennai, Tamil Nadu
Intern
May 2023 - PRESENT

Kaizen Secure Voiz (KSV)
Chennai, Tamil Nadu
Intern
May 2022 - Aug 2022
- Explored deep learning and ASR models, gaining valuable hands-on experience in their application and development.
- Acquired in-depth knowledge of text-to-speech conversion processes and techniques for transforming spoken audio into written text.
- Analyzed the intricate workings of ASR models, including speech recognition, language modeling, and decoding processes.
- Conducted a comprehensive evaluation of prominent ASR models, such as Deepspeech, Wav2Vec2, and Vosk, assessing their strengths, weaknesses, and potential applications.

Institution of Engineering and Technology (IET)
VIT, Vellore
Publicity and Outreach Head
July 2021 - January 2023
- Handled media, publicity and outreach for the representation of a UK based student run chapter in college.
- Lead and guided a team of over 50 individuals, for media and publicity of the workshops and events conducted by the chapter.
- Designed timelines, reviewed work, presided over meetings and involved in planning

University Projects

Sports Highlights Generation
March 2023
Natural Language Processing
- Generated sports highlights by analyzing match commentary using TF-IDF vectorization, NLP text processing, and cosine similarity.
- Implemented text extraction and NLP text pre-processing techniques for accurate analysis of match commentary in the project.
- Utilized TF-IDF vectorization and cosine similarity to measure keyword relevance and identify key moments in match commentary for highlight generation.

Multilevel Biometric Authentication
April, 2022
Cyber Security, Information Security
- Developed a user authentication system that utilizes combined voice and face data for enhanced security.
- Integrated Azure's API for voice and facial recognition to authenticate user identities.
- Created a user-friendly frontend interface for seamless account creation, login, and verification processes.

Skills

Programming	C/C++, Python, Java, HTML/CSS, JavaScript, SQL, PHP.
Developer tools	VS Code, Anaconda, Google Cloud Console, MySQL, ArduinoIDE, Microsoft Office.
Technologies/ Frameworks	Git, React.js, Node.js, Linux
Soft Skills	Communication, Organization leadership, Analytical thinking, Problem-solving, Time Management, Team work, Documentation.