Tarun Kannuchamy

Student | Aspiring Software Developer

+91 6385594814 | tarunkannuchamy@gmail.com | github.com/TarunKannuchamy | linkedin.com/in/tarunkannuchamy/

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
  - Computer Networking
  - Parallel and Distributed Computing
  - Object-Oriented Programming
  - Computer Architecture
  - Machine Learning
  - Database Management
  - Operating Systems
  - Web Programming

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 - June 2023*
- Leveraged PySpark for processing and analyzing large datasets, implementing distributed computing for efficient data manipulation.
- Proficient in advanced SQL querying for data analysis, including data cleaning, aggregation, and filtering for data-driven decision-making.
- Developed robust web scraping scripts to collect real-time data, curating and structuring datasets for actionable insights and business growth.
- Proficient in data visualization using tools like Streamlit, Pandas, Plotly, and Geopy to create interactive and visually appealing charts, graphs, and maps, facilitating effective communication of analytical findings.

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

Projects

Indian Company Registration - Analytics *June 2023*
Big data
- Processed historical Indian company registration data since 1857 using PySpark and Databricks, extracting valuable insights for strategic decision-making.
- Efficiently transferred files between Hadoop storage and local systems using Linux commands and WinSCP, ensuring data integrity and accessibility.
- Created interactive data visualizations with Streamlit, Plotly, and Matplotlib, facilitating easy comprehension of metrics.

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	PySpark, Streamlit, Pytorch, Git, React.js, Node.js, Linux
Soft Skills	Communication, Organization leadership, Analytical thinking, Problem-solving, Time Management, Team work, Documentation.