

Tarun Kannuchamy

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EDUCATION

Vellore Institute of Technology(VIT)

Bachelor of Technology in Computer Science and Engineering

Relevant Coursework:

Data Structures and Algorithms, Object Oriented Programming, Database Management, Operating Systems, Web Technology, Computer Architecture, Computer Networks, Natural Language Processing, Machine Learning

Vellore, Tamil Nadu

Sept. 2020 – Present

SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, R

Frameworks/Libraries: PySpark, React, Node.js, PyTorch, Pandas, NumPy, Matplotlib, Plotly

Developer Tools: Git, Databricks, VS Code, Visual Studio, PyCharm, IntelliJ, Anaconda, Jupyter Notebooks, MS Word

Soft skills: Communication, Leadership, Analytical thinking, Problem-solving, Time Management, Adaptability

EXPERIENCE

Data Engineering Intern

BuSoft Tech - Beyond Universe Software Technologies

May 2023 – June 2023

Chennai, Tamil Nadu

- Leveraged PySpark for efficient processing, analyzing and manipulation of large datasets.
- Wrote advanced SQL queries for data analysis, including data cleaning, aggregation, and filtering.
- Developed web scraping scripts to collect real-time data, curating and structuring datasets for actionable insights.
- Proficient in data visualization using tools like Streamlit, Pandas, Plotly, and Geopy to create interactive charts, graphs, and maps, facilitating effective communication of analytical findings.

Deep Learning Intern

KSV - Kaizen Secure Voiz

May 2022 – Aug. 2022

Chennai, Tamil Nadu

- Explored deep learning and ASR models, gaining valuable hands-on experience in their application and development.
- Acquired knowledge of text-to-speech conversion processes and techniques for transforming spoken audio into text.
- Analyzed the 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.

Publicity and Outreach Head

Institution of Engineering and Technology (IET)

Jan. 2022 – Dec. 2022

Vellore, Tamil Nadu

- 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 events conducted by the chapter.
- Designed timelines, reviewed work, presided over meetings and involved in planning

PROJECTS

Indian Company Registration - Analytics | *PySpark, MySQL, Hadoop, WinSCP, Linux*

June 2023

- Processed Indian company registration data since 1857 using PySpark and Databricks, extracting valuable insights
- Efficiently transferred files between Hadoop storage and local systems using Linux commands and WinSCP.
- Created interactive data visualizations with Streamlit and Matplotlib, facilitating easy comprehension of metrics.

Sports Highlights Generation | *Python, NLTK, Firebase*

April 2023

- Implemented text extraction and NLP text pre-processing for accurate retrieval of keywords from match commentary.
- Utilized TF-IDF vectorization and cosine similarity to measure keyword relevance and identify key moments in match commentary for highlight generation.

Multilevel Biometric Authentication | *Azure Cognitive APIs, Javascript*

April 2022

- Developed a user authentication system that utilizes combined voice and face data for enhanced security.
- Integrated Azure's cognitive APIs for voice and facial recognition to authenticate user identities.
- Created a user-friendly frontend interface for seamless account creation, login, and verification processes.

PUBLICATIONS

A Parallel approach to Generate Sports Highlights from Match Videos using Artificial Intelligence

Manuscript submitted for publication.