HARIHARAN KAUSHIK

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EDUCATION

Program	Institution/Board	CGPA/10	Year
B.Tech in Computer Science with AI	Amrita Vishwa Vidyapeetham (Chennai)	**7.5**	2020-2024
Intermediate (HSC)	Narayana Junior College (Visakhapatnam)	**9.4**	2018-2020
Matriculation (SSC)	Haragopal High School (Visakhapatnam)	**9.7**	2017-2018

TECHNICAL SKILLS

Programming Languages: Python, Java, C++

Web Development: React, HTML, CSS, JavaScript, Node.js, Express.js

Databases: MongoDB, MySQL

ML/AI & Tools: Natural Language Processing (NLP), Deep Learning, Reinforcement Learning, MATLAB, LaTeX, Git

PROJECTS

Apex Auth – Secure Authentication System (MERN Stack) **Dec 2024 – Feb 2025**

- Engineered a robust and scalable authentication system using the MERN stack for secure user management in web applications.
- Integrated advanced security measures including JWT, Google OAuth, and bcrypt hashing to ensure secure and effective user data protection.

Interactive Apple Vision Pro Web Clone (HTML, CSS, JS) **Sept 2024 – Nov 2024**

- Developed a highly interactive and visually engaging web page emulating Apple's Vision Pro, showcasing complex animations and UI elements.
- Leveraged Canvas, GSAP, and ScrollTrigger to create smooth, responsive animations and integrate multimedia, providing an immersive user experience.

Exploring ML Models for Duplicate Question Detection in Online Communities **Oct 2023 – Dec 2023**

- Developed and evaluated machine learning models to detect duplicate questions in online communities using Quora dataset
- Utilized NLP and text similarity metrics to identify similar questions and enhance the quality of discussions
- Achieved an accuracy of 68.67% and F1 score of 67.81% with the Random Forest model, outperforming other models

Data-Driven Market Analysis of Restaurants in Attica, Greece **Aug 2023 - Nov 2023**

- Gathered relevant data points and applied the K-means clustering to group restaurants based on similarities enhancing our understanding of the restaurant market
- Analyzed the clusters to identify patterns providing valuable insights. This analysis provided a comprehensive understanding of the dynamics of the restaurant market in Attica, Greece
- Combining web scraping, machine learning, and data interpretation skills to uncover valuable information about the restaurant market in Attica, Greece

PUBLICATIONS

LSTM Based Monophonic Piano Melody Synthesis **Feb 2023 – Dec 2023**

- Utilized recurrent neural networks to produce innovative piano-like musical sequences.
- Achieved great accuracy and low loss (Accuracy: 91.78%, Loss: 23.91%), outperforming in generating quality piano melodies.