ALLURI JAYANTH VARMA

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Summary

Self-driven and enthusiastic student seeking an opportunity to obtain a full-time position in the field of Information Technology, where I can leverage my passion for technology integration and problem-solving skills. With a strong foundation in Java programming and a keen interest in tackling complex challenges, I am driven to contribute to organizational success while pursuing my own professional growth.

Education

Amrita Vishwa Vidyapeetham	*BTech Computer Science*	**Oct. 2021 – May 2025**	*CGPA 8.36*
Sri Chaitanya Junior College	*High Secondary School*	**Apr. 2019 – Mar 2021**	*CGPA 9.32*
Visakha Valley School	*Secondary School*	**Mar. 2018 – May 2019**	*CGPA 8.1*

Skills

- **Programming**: Java, Python, HTML/CSS, JavaScript, Bootstrap, SQL
- **Developer Tools**: Eclipse, PyCharm, VS Code, Android Studio
- **Soft Skills**: Teamwork, Problem Solving, Hardworking, Time Management
- **Co-Curricular**: Represented Amrita College, Chennai Campus in both Badminton, VolleyBall

Work Experience

Data Science Intern — Acmegrade **Sep 2023 - Dec 2023**

- Developed a machine learning model using Convolutional Neural Networks (CNN) to classify fruits from a large dataset based on key attributes such as color, texture, size, and shape. The model was used to process the fruit images and achieved an impressive accuracy rate of 96.2% in predicting the correct fruit. This project was recognized with an appreciation letter from the Acmegrade team for its successful implementation and high performance.

Projects

Image Encryption and Decryption | *Python, LFSR, Confusion, Diffusion* **Feb 2024 - June 2024**

- Developed an approach for picture encryption and decryption using LFSR (Linear feedback shift register), recursive image splitting, shuffling in order to increase the security .
- Picture is divided into 16 images using LFSR key and each block is encrypted using a different LFSR key, To ensure precise decryption. Multiple support machines were used to evaluate the performance of image encryption. The model used was Support Vector Machine with a Radial Basis Function and achieved 98.33 accuracy. Validity of encryption process is assessed using entropy analysis and histogram comparison .
- Written a research paper on this project and submitted for acceptance to IEEE conference.

Railway Management System using JDBC connectivity | *Java, DBMS, SQL, OOPs* **Dec 2023 - Jan 2024**

- The Railway Management System was built using Java Swing for the GUI , ticket booking and status tracking.
- Created MY SQL DB with User authentication for Admin and normal user access. Used JDBC connectivity to connect the booking application to its DB.
- With JDBC, the system can update information in real- time, keep data accurate and render data faster, to enable users to book and manage tickets.

Certifications

SQL Intermediate: HackerRank 2024
Problem Solving Basic: HackerRank 2024
Java Data Structures: Udemy 2024
TCS Ion: Carrer edge and Young Professional 2023

Achievements

DBMS NPTEL Exam: Elite 2023
MySQL: Successfully completed medium tier problems on HackerRank with a 5 star grade.