

AMERTHEN S

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Education

VELAMMAL VIDYALAYA CBSE - HSC Percentage: 94.8	2019 - 2021
ST. JOSEPH'S INSTITUTE OF TECHNOLOGY B.Tech - Artificial Intelligence and Data Science CGPA: 8.51	2021 - 2025

Skillset

Technical skills: Python, Data Science and Analytics, Machine Learning

Tools and platforms: Git, Github, VSCode, JupyterLab, PowerBI, Excel, MySQL

Soft skills: Team Leadership, Event Management, Cross-functional Collaboration, Insight Generation

Experience

Research Intern, Stigmata Techno Solutions Jun 2024 - Jul 2024

- Engineered enhancements for Clousec, a cloud security product that integrates CSPM and CCOE, contributing to a 30% improvement in compliance visibility through a streamlined and unified interface.
- Performed in-depth technical analysis on CSPM, CCOE, and Peppol networks, resulting in a competitive analysis of 5+ rival products, identifying 3 key differentiators that strengthened Clousec's positioning.
- Authored POCs and user manuals, increasing onboarding efficiency by 40% and reducing support queries by 25%.

Publications

Seismopredict: Advanced Machine Learning for Earthquake Damage Assessment Jan 2025

Amerthen S, Aron Nambikai Fernando J, Praba M

[10.1109/ICISCN64258.2025.10934698](https://doi.org/10.1109/ICISCN64258.2025.10934698)

Projects

Risk Analytics Git

- Cleaned and transformed 10,000+ customer records using advanced EDA techniques, boosting data integrity.
- Improved data quality through handling of missing values and normalization, enabling over 95% model training accuracy for loan sanction classification.
- Trained and evaluated SVM, K-Nearest Neighbors, and Decision Tree models; SVM achieved highest accuracy of 97% in binary classification.

Pneumonia Detection using CNN model Git

- Developed a CNN-based model to detect pneumonia in medical lung images, integrating appropriate loss and activation functions for improved learning.
- Utilized a dataset of 5,216 labeled medical images, applying preprocessing techniques such as normalization and resizing for model readiness.
- Trained over 50 epochs, achieving a baseline training accuracy of 50.48%, providing a foundation for hyperparameter tuning and performance improvement.

Certifications

Coursera: Data Analytics, Microsoft Excel, Microsoft Power BI

AWS Training & Certification: Data Analytics Fundamentals

NPTEL: Python for Data Science, Cloud Computing

Infosys Springboard: Data Science

Cambridge English: - B2 Business Vantage

Professional Training – Hexaware Technologies

SPARK Phase 1 – Behavioral and Communication Training (Dec 2024): Trained in Agile teamwork, effective communication, and professional collaboration in IT environments.

Java Foundation Training (Mar - Apr 2025): Covered core Java concepts and SQL; developed a Java-based application that connected to a MySQL database for performing update operations.

Full Stack Development with Java & Angular (May - July 2025): Built front-end applications using HTML, CSS and Angular; integrated them with Java-based backends for full-stack project exposure.

Leadership & Campus Engagement

First Year Orientation Programme - Event Manager

Nov 2022

INCOGNITO 2K23 - Event Organizer

Aug 2023

AiZEN 2K24 - Head Coordinator

Sept 2024

Sports Captain - AI & DS Department

2021 - 2025