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## EDUCATION

<b>Marian Engineering College</b> B.Tech. - Electronics & Communication Engineering   CGPA: 6.87 / 10	2021 - 2025
<b>Christ Nagar Senior Secondary School, Thiruvananthapuram</b> 12 <sup>th</sup>   CBSE   Percentage: 86.60 / 100	2021
<b>Christ Nagar Senior Secondary School, Thiruvananthapuram</b> 10 <sup>th</sup>   CBSE   Percentage: 81.40 / 100	2019

## ASSESSMENTS / CERTIFICATIONS

### IT Infrastructure Automation: Automation & Scalability

**Key Skills:** Learning

IT Infrastructure Automation involves using software and technology to automate routine IT tasks and processes, such as provisioning, configuration, management, and monitoring of computing resources. This automation enhances scalability by enabling rapid and consistent deployment of IT resources, allowing organizations to efficiently manage large and complex infrastructures. Key benefits include reduced human error, increased efficiency, faster deployment times, and improved resource utilization. It supports the dynamic needs of modern businesses by enabling seamless scaling of applications and services in response to demand, thereby ensuring optimal performance and reliability. Automation tools and frameworks like Ansible, Puppet, and Terraform are commonly used to achieve these goals.

### Course on Chatgpt

**Key Skills:** Python

ChatGPT stands for Chat Generative Pre-trained Transformer, representing a conversational AI model capable of generating human-like text based on its training data. It utilizes the Transformer architecture and pre-training techniques to understand and generate natural language responses across various contexts and topics.

### Machine Learning Terminology and Process

**Key Skills:** Machine Learning

Machine learning involves training algorithms to make predictions or decisions based on data. Key terms include algorithm (a set of rules for learning from data) and model (the trained result of an algorithm). Training data is used to train the model, while testing data evaluates its performance. Features are input variables, and labels are the outputs the model predicts. Supervised learning uses labeled data, whereas unsupervised learning finds patterns in unlabeled data. Reinforcement learning involves learning through rewards and penalties. Overfitting occurs when a model learns noise and performs poorly on new data, while underfitting happens when a model is too simple to capture data patterns. Cross-validation splits data into subsets to evaluate model performance. Hyperparameters are settings that control the training process, such as learning rate. Evaluation metrics like accuracy, precision, and recall measure model performance. The typical process includes defining the problem, collecting data, preprocessing it, splitting it into training and testing sets, selecting and training an algorithm, tuning hyperparameters, and evaluating the model using appropriate metrics.

### Data Science 101: What is Data science?

**Key Skills:** Data Science

Data science is an interdisciplinary field that extracts insights from structured and unstructured data using scientific methods, processes, algorithms, and systems. It combines statistics, mathematics, computer science, and domain expertise. The process involves data collection from sources like databases and sensors, data cleaning to ensure quality, data exploration through statistical analysis and visualization, data modeling using machine learning for predictions, data interpretation for actionable insights, and data communication via visualizations and reports. Applications include business analytics for trend identification, healthcare for disease prediction, finance for fraud detection, and marketing for customer segmentation. This enables organizations to make data-driven decisions.

### Data science course-Mastering the fundamental

**Key Skills:** Data Science

A data science course titled "Mastering the Fundamentals" provides a comprehensive understanding of core concepts and techniques essential for a successful career in data science. The curriculum covers foundational topics such as statistics, probability, data manipulation, and data visualization using popular tools like Python, R, and SQL. Students learn advanced techniques in machine

learning and predictive modeling, exploring algorithms like regression, classification, clustering, and deep learning. Practical exercises and real-world projects enable hands-on experience in data analysis and interpretation. Additionally, the course may delve into data ethics, privacy, and best practices in handling large datasets. By mastering these fundamentals, students gain the skills and knowledge needed to excel in the dynamic field of data science.

## Prompt Engineering for Chatgpt

**Key Skills:** prompt engineering chatgpt

"Prompt Engineering for ChatGPT" involves crafting effective prompts to elicit desired responses from the AI model. This process requires understanding the capabilities and limitations of ChatGPT and tailoring prompts accordingly. Key strategies include providing clear context, asking specific questions, and using proper formatting and language. Additionally, leveraging knowledge of the model's training data and common patterns can help generate more relevant and coherent responses. Experimentation with different prompts and continuous refinement based on feedback are essential for optimizing interaction and achieving desired outcomes. Overall, prompt engineering plays a crucial role in enhancing the effectiveness and naturalness of conversations with ChatGPT.

## SEMINARS / TRAININGS / WORKSHOPS

**KBA Institute Name:** Marian Engineering College

22 Apr, 2024 - 23 Apr, 2024

**Key Skills:** Knowledge about Block Chain

Kerala Blockchain Academy (KBA) is an initiative by the Government of Kerala, India, aiming to promote blockchain technology education, research, and development. Affiliated with the Indian Institute of Information Technology and Management - Kerala (IIITM-K), KBA offers comprehensive training programs, certifications, and workshops on blockchain technology. It focuses on empowering professionals and students with the skills needed for blockchain development and application. KBA also collaborates with global tech giants and academic institutions to drive innovation and create a robust blockchain ecosystem. Its mission is to position Kerala as a leading hub for blockchain talent and innovation.

## Embedded System with Arduino and IoT Integration

18 Feb, 2024 - 20 Feb, 2024

**Institute Name:** HIEE Empowering Engineers PVT LTD

**Key Skills:** Arduino IoT

An embedded system with Arduino and IoT integration involves using an Arduino microcontroller to interact with sensors and actuators, collecting and processing data. This data is transmitted to the Internet via IoT protocols for remote monitoring and control. Arduino, known for its simplicity and versatility, serves as the core of the embedded system, while IoT enables connectivity and real-time data exchange. Applications include smart home devices, industrial automation, and environmental monitoring. This integration allows for creating intelligent systems that can be monitored and controlled from anywhere, enhancing efficiency and functionality.

## Galactic Problem Solver

07 Oct, 2023 - 08 Oct, 2023

**Institute Name:** Jyothi Engineering College, Cheruthuruthy, Thrissur

The NASA Space Apps Challenge 2023 is an international hackathon that brings together participants from around the world to solve real-world problems using NASA's open data. Held annually, this event encourages collaboration and innovation among coders, scientists, designers, storytellers, makers, builders, technologists, and others. In 2023, participants tackled a wide range of challenges related to Earth and space science, leveraging NASA's extensive data sets to develop solutions that address

## LockIN

26 Nov, 2022 - 26 Nov, 2022

**Institute Name:** Marian Engineering College

**Key Skills:** Cyber Security

Cybersecurity involves protecting computer systems, networks, and data from unauthorized access and cyber threats. It includes network security measures like firewalls and intrusion detection systems, endpoint security for individual devices, identity and access management, data encryption, application security, and security awareness training. Incident response procedures and compliance with regulations are also critical. A multi-layered approach combining technical controls, user education, and proactive monitoring is essential to mitigate risks and safeguard against evolving cyber threats.

## SOLID WORKS

21 Oct, 2022 - 22 Oct, 2022

**Institute Name:** National Institute of Technology Calicut

SolidWorks, developed by Dassault Systems, is a leading CAD and CAE software used for 3D modeling, simulations, and product data management. It enhances design quality, productivity, and collaboration across industries such as automotive, aerospace, and consumer products by providing advanced tools for creating, testing, and managing detailed 3D models.

## IOT Workshop

02 Jul, 2022 - 02 Jul, 2022

**Institute Name:** Marian Engineering College

**Key Skills:** Basic Knowledge of Internet of Things

The Internet of Things (IoT) refers to a network of interconnected physical devices embedded with sensors, software, and other technologies to collect and exchange data over the internet. These devices range from everyday household items like smart thermostats and wearable fitness trackers to industrial machinery and smart city infrastructure. IoT enables remote monitoring, control, and automation, improving efficiency and providing valuable insights through data analytics. Its applications span

IMs

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PERSONAL DETAILS

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