

# Arunkumar J

arun22112003@outlook.com | linkedin.com/in/22arun11 | 9342747117

## EDUCATION

### AMRITA VISWA VIDYAPEETHAM

#### B.TECH IN COMPUTER SCIENCE

Oct 2021 - Present | Coimbatore, India  
CGPA: 8.36/10

### NOTRE DAME OF HOLY CROSS

#### SENIOR SECONDARY

MAY 2019 | SALEM, INDIA  
Percentage : 92.60

## LINKS

LeetCode:// 22\_arun\_11

Github:// 22arun11

LinkedIn:// 22arun11

Twitter:// 22\_arun\_11

## COURSEWORK

- Data Structures
- Design & Analysis of Algorithms
- Theory of Computation
- Discrete Mathematics
- Digital Electronics
- Operating Systems
- Program Reasoning
- Computer Networks
- Machine Learning
- Foundations of Data Science
- Database Management Systems
- Principles of AI ( PE )

## SKILLS

### PROGRAMMING

- Python • Java
- Django • C++
- MySQL • PHP

### DEVELOPEMENT

- Prompt Engineering
- Machine Learning
- Data Science
- Streamlit

## INTERESTS

- Algorithmic Problem Solving
- Graph Theory & Algorithms
- Theoretical CS Research
- Competitive Programming

## EXPERIENCE

### DIGINIQUE LABS (IIT Roorkee) | STUDENT INTERN

Aug 2023 - Present | Remote, TN

- Proficiency in Ethereum smart contract development. Expertise in creating decentralized applications (DApps).
- Achieved a substantial 30% reduction in transaction costs.
- Enhanced overall functionality and efficiency of the blockchain network.
- Diligently explored Web 3.0 technologies and deepened understanding of blockchain fundamentals.
- Implemented scalable solutions that delivered a substantial 20% improvement in overall system performance.

## PROJECTS

### METFORECAST PRO | LEAD DEVELOPER

( AI-Driven Weather Insights Chatbot )

- **CodeBot Competition Winner (1st Place):** Orchestrated an award-winning Streamlit project, seamlessly integrating OpenAI's TestDaVinci.
- **Developed a responsive chatbot** with Pyplot integration, providing precise 7-day weather forecasts, showcasing innovation and expertise.

### SMART WATER DISTRIBUTION SYSTEM | LEAD DEVELOPER

( Harnessing Data for Efficiency )

- **Database Optimization:** Efficiently implemented a database system, reducing data retrieval time by 30% from various sensors and IoT devices. This enhanced water distribution system monitoring, boosting operational efficiency.
- **This implementation facilitated** seamless monitoring and control of the data-driven water distribution system, ultimately enhancing operational efficiency.

### INVENTORY DEMAND PREDICTION | LEAD DEVELOPER

( Synthetic Data Modeling: Predicting Stock Availability )

- **Highly Accurate Predictive Models:** Successfully created and applied predictive models on synthetic data, consistently achieving over 90% accuracy, leading to improved stock management decisions.
- **Streamlined Inventory Management:** Achieved over 20% cost savings by accurately forecasting stock requirements and availability, ensuring data-driven decision-making and boosting inventory efficiency.

## RESEARCH

### AMRITA UNIVERSITY LEARNING LAB | RESEARCHER

Sep 2023 - Present | Coimbatore, India

- Under the expert guidance of Professor **Bagavathi C**, Leading the 'ProcessGAN' research project to innovate Business Process Improvement (BPI) using GANs and computational creativity, trying to achieve a 15% initial efficiency boost."

## AWARDS

2021 - **Winner ( 1<sup>st</sup>/50 )** Ideathon (2021) , Amity Univeristy (Mumbai)

2022 - **Winner (1<sup>st</sup>/30 )** Anokha (Code Bot) Tournament , Amrita University

## CERTIFICATIONS

- AWS Machine Learning Foundations (Udacity)
- Networking Essentials (Cisco Network Academy)
- Introduction to Artificial Intelligence (IBM)