Arunkumar J

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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 2021 | 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
- Theoritical 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 (1st/50)	Ideathon (2021) , Amity Univeristy (Mumbai)
2022	Winner (1st/30)	Anokha (Code Bot) Tournament , Amrita University

CERTIFICATIONS

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