ARSHAVI ROY

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in LinkedIn

GitHub

EDUCATION

Narula Institute Of Technology, Agarpara, Kolkata

Aug 2022-Jun 2026

- B. Tech in Computer Science and Engineering
- o CGPA: 9.00/10 (upto 4th sem)
- Relevant Coursework: Operating System, Data Structures and Algorithm, Discrete Maths, Design Analysis of Algorithm, Machine Learning, Object-Oriented Programming

Uttarpara Girls' High School

[WBCHSE]

2020-2022

• Percentage: 94%

Patha-Bhavan Dankuni

[WBBSE]

2018-2020

o Percentage: 96.14%

SKILLS

Languages: C/C++, Java, Python, HTML5, CSS3, JavaScript

Frameworks: Next.js, TensorFlow/Keras, PyTorch, scikit-learn, Three.js

Libraries: Pandas, NumPy, Matplotlib, XGBoost

Cloud/Database: AWS (S3, Lambda, CloudFront), MongoDB Atlas

Machine Learning: Deep Learning, AI Model Development, Risk Assessment Models Development Tools: Git, GitHub, VS Code, Kaggle, Jupyter Notebook, Google Colab

Soft Skills: Project Management, Team Leadership, Technical Communication

PROJECT WORK

Finergize - Financial Inclusion Platform For Rural India (Ongoing) & GitHub

Nov 2024 - Present

- Implemented scalable microfinance platform using Next.js, MongoDB Atlas & Polygon blockchain, enabling digital banking & micro-loans for rural communities
- \circ Integrated ML-based loan assessment system achieving 95% accuracy using XGBoost, featuring real-time analytics & automated risk monitoring
- \circ Developed a secure digital wallet system with biometric authentication, processing over 1000+ daily transactions with 99.9% uptime
- Implemented a peer-to-peer lending marketplace with smart contracts, enabling transparent and secure financial transactions
- o Created a mobile-first responsive UI with offline capabilities, increasing rural user engagement by 60%
- My Contributions: Designed and implemented the loan API guidance model using XGBoost and Random Forest for intelligent loan recommendations; Built the automated loan approval system with 95% accuracy using ensemble learning techniques; Developed the blockchain-based transaction system
- o Tech Stack: Python, Next.js, MongoDB, Blockchain, Machine Learning, React, Node.js, TailwindCSS

Virtual Herbal Garden 🔗 GitHub

Sept - Nov 2024

- o Built an interactive Virtual Herbal Garden using Next.js, Three.js, and MongoDB Atlas
- o Integrated AWS S3, CloudFront, and Lambda to serve and process 3D models dynamically
- Developed an AI-based plant recognition system and chatbot for plant identification and assistance with 98% accuracy score
- Created a comprehensive platform offering e-commerce for plant-based products, expert consultation on medicinal plants, and user-generated blogs for educational insights
- My Contributions: Led the development of AI chatbot using GPT-3.5 for plant care guidance; Implemented CNN-based plant recognition model with 98% accuracy; Designed and developed backend architecture using Node.js and MongoDB
- Enhanced UX with WebGL-based 3D models and real-time data integration [Demo]

ACHIEVEMENTS/CERTIFICATES

- Max rating 1666 (top 15.59%) 180+ problem solved in LeetCode
- o Machine-Learning Specialization by collaboration of Stanford Online and DeepLearning.AI Credentials
- IIT Kharagpur AI4ICPS Certificate Programme Credentials
- Object-Oriented Data Structures in C++ Credentials
- $\circ\,$ Web Development course by Internshala ${\it Credentials}$
- o Complete A.I. and Machine Learning, Data Science Bootcamp Credentials