

Arin Balyan

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Bachelors of Technology

Vellore Institute of Technology, Bhopal

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📄 LeetCode Profile

🐙 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

- **Bachelor of Technology in Computer Science and Engineering(AIML)** 2022-26
Vellore Institute of technology, Bhopal CGPA: 8.21
- **CBSE Senior Secondary Education (12th Boards)** 2022
M.L. GBSS School, Narela, Delhi Percentage: 96.0%
- **CBSE Secondary Education (10th Boards)** 2020
Little Angels School, Sonipat, Haryana Percentage: 94.4%

PROJECTS

- **AgroAid: A comprehensive farming assistant** November 2024 - ongoing
 - Developing a farming support system with crop yield prediction (trained on 1M+ data points) and a crop recommendation model with 95% accuracy.
 - Integrating a multilingual voice assistant to increase accessibility for farmers in rural areas.
 - Building an interactive forum where 500+ farmers can share crop-growing techniques and best practices.
 - Using machine learning models for predictive analytics, providing actionable insights to optimize farming efficiency.
 - Designing a scalable system with a user-friendly interface for easy adoption by farmers.
- **Traffic Flow Prediction Model using LSTM** November 2024 - December 2024
 - Developed a traffic flow prediction model using LSTM neural networks, achieving 93% accuracy.
 - Trained the model on spatio-temporal data from 36 sensor locations, recorded at 15-minute intervals.
 - Implemented time-series forecasting techniques to predict traffic congestion patterns, aiding in traffic management.
 - Conducted extensive model evaluation to enhance predictive performance, reducing mean absolute error (MAE) significantly.
 - Developed as part of a research study, though the paper was not published.
- **NEMESIS Virtual Assistant** June 2024 - July 2024
 - Built a virtual assistant with text-to-speech and voice-controlled cursor movement, improving user accessibility by 40%.
 - Developed a GUI with wake-up word activation, reducing response time by 30%.
 - Implemented image auto-compression, improving web page load speeds by 35%.

EXPERIENCE

- **Smart India Hackathon (Internal Hackathon)** August - September 2024
 - Competed against over 400 teams in the Smart India Hackathon and advanced to the top 60 by ideating innovative solutions, showcasing ability to tackle complex challenges under pressure and within tight deadlines.

CERTIFICATES

- **Applied Machine Learning in Python**(University of Michigan, Coursera) Score: 93.69%
- **Privacy and Security in Online Social Media**(IIT Hyderabad, NPTEL) Score: 81%

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Javascript

Libraries : C++ STL, Python Libraries, ReactJs

Web Dev Tools: Nodejs, VScode, Git, Github

Frameworks: ReactJs

Cloud/Databases: MongoDB, Firebase, Relational Database(PostgreSQL)

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

Areas of Interest: Machine Learning, Data Analysis.

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability