Arin Balyan

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Bachelors of Technology
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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*
MLGBSS 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**

A One stop solution for Farmners for their needs like crop recommendation, Yield Prediction and many more.

- 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**

A Traffic flow prediction model using LSTMs able to accurately predict the traffic flow at 15 minute intervals.

- 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.

•**TrueVoice – Decentralized Feedback System**

Blockchain-based feedback platform with immutable, transparent feedback records

- Implemented a custom blockchain using SHA256 hashing and proof-of-work to guarantee feedback immutability and data integrity.
- Built RESTful APIs with Node.js and Express.js for feedback submission, request management, and response collection, streamlining front-end interactions.
- Designed a responsive HTML/CSS/JavaScript dashboard featuring real-time updates, filtering, and analytics to track feedback activities and request statuses.

CERTIFICATES

•**Applied Machine Learning in Python**(University of Michigan, Coursera) *Score: 93.69%*

•**Ethnus MERN Full-stack Developer Certification**(Ethnus) *90%*

•**IBM Blockchain Develpoer Certification Program**(IBM)

•**Privacy and Security in Online Social Media**(IIT Hyderabad, NPTEL) *Score: 81%*

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, JavaScript, SQL
Libraries: C++ STL, NumPy, Pandas
Web Dev Tools: Node.js, VS Code, Git, GitHub, Postman, ESLint, Nodemon
Frameworks: React.js, Express.js, Django, Flask
Cloud/Databases: MongoDB, Firebase, MySQL, PostgreSQL
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Machine Learning, Data Analysis, Web Development
Soft Skills: Leadership, Problem Solving, Self-learning, Presentation, Adaptability, Empathy, Time Management, Creativity, Citical Thinking, Teamwork, Emotional Intelligence, Communication