

ANSHUL PATEL

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Education

Vellore Institute of Technology

B.Tech, Computer Science and Engineering – CGPA: 9.42

Aug 2023 – Aug 2027

Vellore, Tamil Nadu

Experience

Tri-Force Consulting Services Pvt. Ltd.

Flutter App Developer Intern

May 2025 – June 2025

Ahmedabad, Gujarat

- Developed and localized **MLeads app** by managing **1800+ phrases** across **20 languages**, implementing dynamic language selection interface
- Engineered **Firebase integration** for user authentication, live notifications, and real-time data synchronization across devices
- Built **weather forecasting app** from scratch with **API integration** for real-time data and **10-day prediction** features
- Maintained **Flutter project modularity** for scalability and collaborated using **Git/GitHub** for version control

Centre for Social Entrepreneurship and Development, VIT

Core Committee Member

Apr 2024 – Feb 2025

Vellore, Tamil Nadu

- Organized and managed workshops and tech events for **200+ students** promoting social innovation and entrepreneurship
- Coordinated **cross-functional teams** to plan initiatives combining technology and community development
- Led outreach and volunteer programs to increase student participation in **sustainability-driven projects**
- Executed **event logistics, sponsorship outreach, and media coordination** ensuring successful event delivery

Projects

EcoMind AI Waste Classifier | Python, Scikit-Learn, Flask, Docker, NLTK

- Engineered **AI-powered waste classification system** achieving **92% accuracy** using **CNN** and image processing techniques
- Integrated **recycling suggestions feature** providing eco-friendly disposal recommendations for **15+ waste categories**
- Deployed solution with **4-member team**, reducing waste sorting time by **60%** in testing scenarios

Customer Churn Prediction System | TensorFlow, Keras, Streamlit, Scikit-Learn

- Developed **deep learning ANN model** achieving **86% accuracy** in predicting banking customer churn
- Processed **10,000+ customer records** with **12 features** including credit score and account balance parameters
- Optimized neural network architecture using **GridSearchCV hyperparameter tuning**
- Deployed **Streamlit web application** for real-time predictions with **TensorBoard integration** for model monitoring

Phishing Detection Security System | Python, Scikit-Learn, NLTK, BentoML

- Developed **ML-based phishing detection system** with **98% accuracy** using ensemble methods and **NLP**
- Analyzed **25,000+ URL samples** and extracted **30+ security features** for comprehensive threat assessment
- Deployed model using **BentoML framework** with **REST API endpoints** handling **1000+ requests per minute**

React Admin Dashboard | ReactJS, Material UI, Nivo Charts, Formik, FullCalendar

- Designed comprehensive admin dashboard using **React and Material UI**
- Integrated **Nivo Charts library** creating **12+ interactive data visualization components** with real-time updates
- Implemented form validation using **Formik and Yup** reducing data entry errors by **70%** across user workflows
- Built **calendar management system** with **FullCalendar integration** supporting **500+ monthly appointments**

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript, R

Web & App Development: HTML, CSS, ReactJS, MySQL, Flutter, Firebase, Flask, Streamlit, FastAPI, REST APIs

AI & Machine Learning: Scikit-Learn, Pandas, NumPy, Matplotlib, TensorFlow, NLTK, Deep Learning, Docker, BentoML, MLflow

Version Control & Cloud: Git, GitHub, Data Version Control (DVC), AWS, MongoDB Atlas