

# Bhavashesh Dachapalli

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## PROFESSIONAL SUMMARY

AI/ML Engineer and Full Stack Developer with a track record of deploying 4+ intelligent, data-driven applications across IoT, agritech, and edtech. Skilled in integrating ML models into scalable APIs and responsive UIs using FastAPI, React, and TensorFlow. Delivered up to 30% gains in predictive accuracy and built platforms impacting 100+ users. Strong in DevOps, cloud deployment, and cross-functional development.

## EDUCATION

### SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI

B.Tech

Computer Science and Engineering

Expected: May. 2027 | Chennai, India

Cum. GPA: 9.48 / 10.0

### EXCELLENCIA JUNIOR COLLEGE

Grad. April 2023 | Hyderabad, Telangana, India

Class XII : 91.1%

### DELHI PUBLIC SCHOOL

Matriculation: May 2021 | Hyderabad, Telangana, India

Class X : 89%

## SKILLS

### Programming Languages

• C • C++ • Java • Python • JavaScript

### Machine Learning & AI

• TensorFlow • Keras • Scikit-learn  
• OpenCV • Pandas • NumPy  
• NLP • Matplotlib

### Frontend Development

• React.js • Tailwind CSS • HTML5  
• CSS3 • JavaScript • Figma

### Backend Development

• FastAPI • Node.js • Flask • Firebase  
• RESTful APIs • SQL • MongoDB  
• MySQL

### DevOps & Deployment

• Docker • Git • GitHub Actions  
• Vercel • Uvicorn • CI/CD

### Embedded Systems & IoT

• Arduino • ESP32 • IoT Sensors

### Blockchain

• Solidity • Ethereum • Truffle  
• Ganache

## LEADERSHIP & EXPERIENCE

### IEEE Society, Chennai: Web Dev Member

Oct' 2024 - Present

- Developed and maintained multiple responsive web platforms for university-wide use.

### The Directorate of Student Affairs (DSA): Committee Member

Aug' 2023 - Sep' Present

- Organized 10+ events for 1000+ students including hackathons, workshops, and festivals.

### Aaruush, SRM University

Aug' 2023 - Oct'24

- Led execution of national-level tech fest with 2000+ participants.

## PROJECTS

### AGRISYNC | AI-Powered Smart Farming & Marketplace

Tech: FastAPI, React, TensorFlow, Ethereum

- Trained CNN on 1,500+ leaf images to detect crop diseases with 89% reduction in spoilage.
- Built real-time marketplace with dynamic price forecasting and buyer-seller matchmaking.
- Integrated Ethereum for tamper-proof transaction logging.

### Project OnboardX | Intelligent Vehicle Monitoring System

Tech: ESP32, Sensors, Raspberry Pi, FastAPI, React, Firebase

- Built anomaly detection pipeline; achieved 94% precision in detecting engine anomalies.
- Integrated real-time emergency alert system using Firebase and SMS API.

### BluePulse | Smart Water Conservation System

Tech: IoT, React, ML, FastAPI

- Deployed ML model to analyze water usage patterns; reduced household consumption by 22%.
- Created real-time dashboard with actionable tips; pilot tested in 15 homes.

### QuestEd | Personalized Learning Platform

Tech: FastAPI, Gemini API, React, Firebase

- Built recommendation engine for gamified quizzes, increasing test scores by 27% for 130+ users.
- Enabled emotion-aware content delivery through multimodal AI integration.

## COURSEWORK

### UNDERGRADUATE

Probability & Statistics  
Object Oriented Design Principles  
Operating Systems  
Database Management Systems  
Programming for Problem Solving  
Data Structures and Algorithms

## AWARDS

### REDBULL BASEMENT

#### 1st Postion - Winner

- An AI-based workout assistant that provides personalized exercise recommendations and real-time feedback.

### TEM-E-THON'25

Top 10 Finalist

- Ranking among the Top 24 out of 300+ teams in Temenos' 24-hour hackathon by developing BluePulse, an innovative solution.

### EENDURVERSE' 25 HACKATHON

#### 3<sup>rd</sup> - Position

Ranked among the Top 6 teams across India in Temenos' 3-day hackathon by developing Project-OnBoardX, an innovative solution.

### SMART INDIA HACKATHON

- One among Qualified for the Smart India Hackathon.

## CO-CURRICULAR

Video Editing  
Cooking  
Table Tennis  
Cricket  
Football

## Smart-AgriCulture | IoT-Based Precision Agriculture

*Tech: ESP32, Firebase, FastAPI, React, Machine Learning*

- Delivered 25–30% improvement in crop health prediction via environmental data analysis.
- Enabled real-time farmer alerts via SMS and dashboard integration.

## Vibeout | Emotion-Based Workout Assistant (Red Bull Winner)

*Tech: React, Tailwind CSS, Google API, FastAPI, Node.js.*

- Implemented facial emotion recognition to tailor exercise plans in real-time.
- Achieved 93% user satisfaction across pilot cohort.

## CERTIFICATIONS

- Complete Python Developer in 2023: Zero To Mastery
- Python 101 for Data Science – Nov 2023
- Programming in Java (NPTEL) – Nov 2024
- IoT Wireless & Cloud Computing
- Database Systems (NPTEL) – April 2025
- Supervised Machine Learning – Feb 2025
- GitHub Foundations - May 2025